TH 6231
.S82
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OCT 24 1900

# MODERN PLUMBING ILLUSTRATED

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PLATE I.

# CONNECTIONS FOR LAVATORY

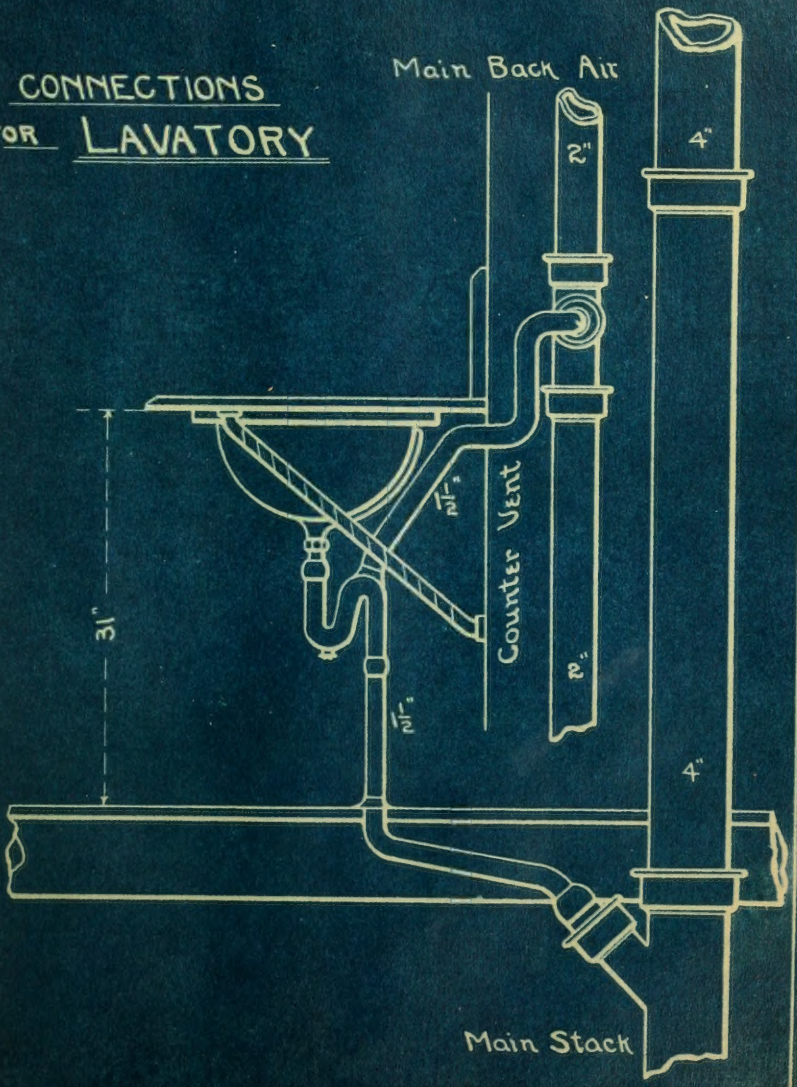
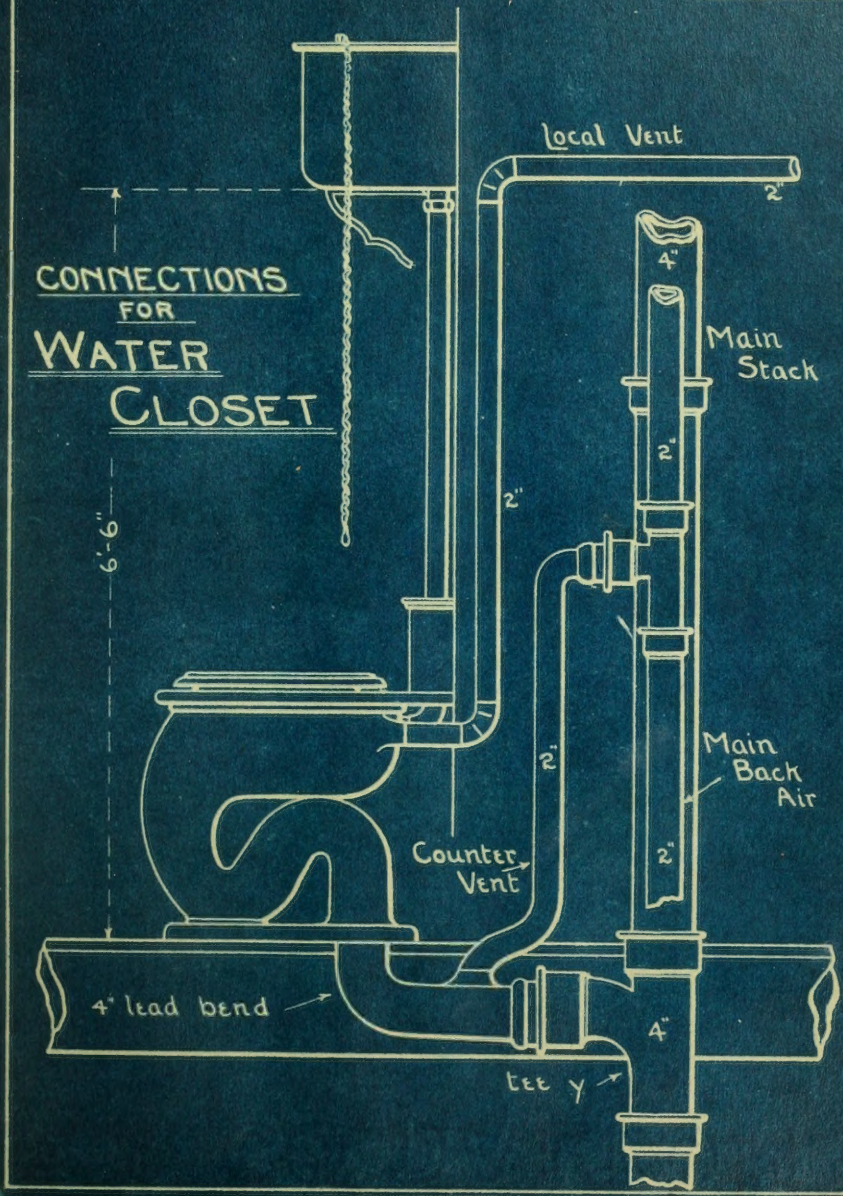


PLATE 2.


CONNECTIONS
FOR
WATER
CLOSET
6'-6"
Local Vent
2"
4"
Main
Stack
2"
2"
2"
Main
Back
Air
2"
Counter
Vent
4" lead bend
4"
tee Y

# CONNECTIONS FOR BATH TUB

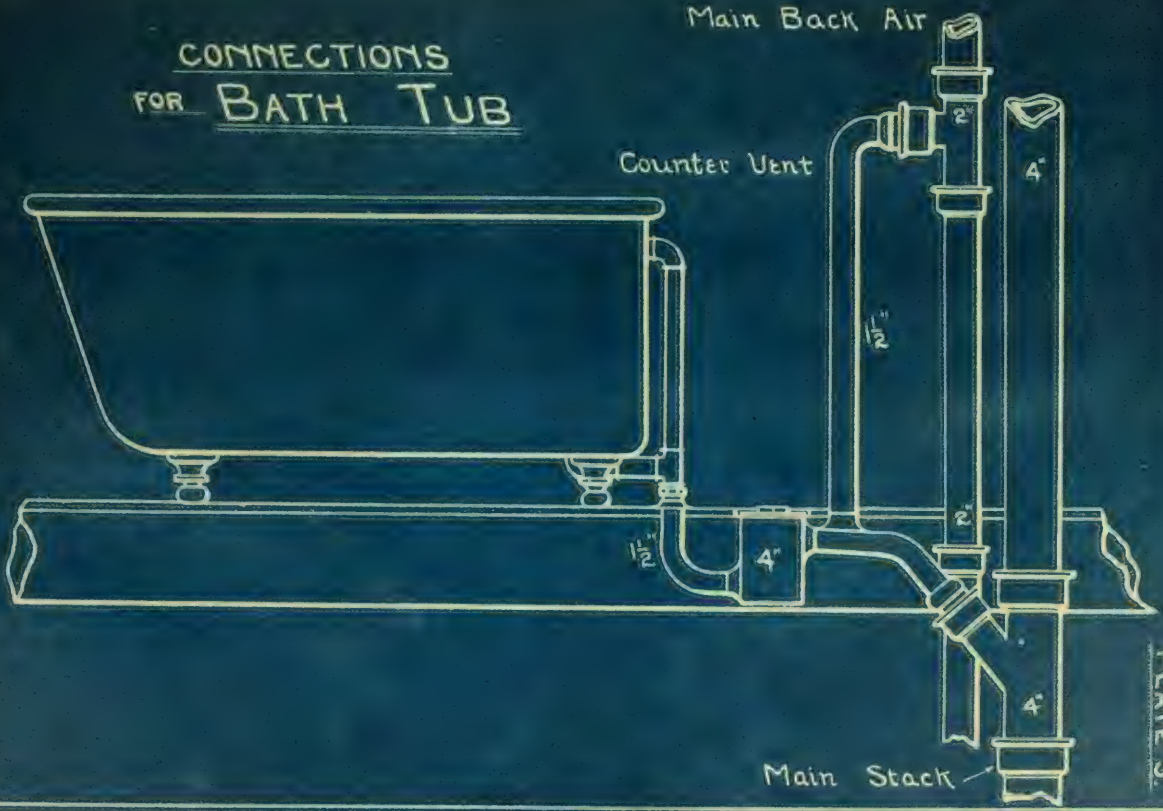
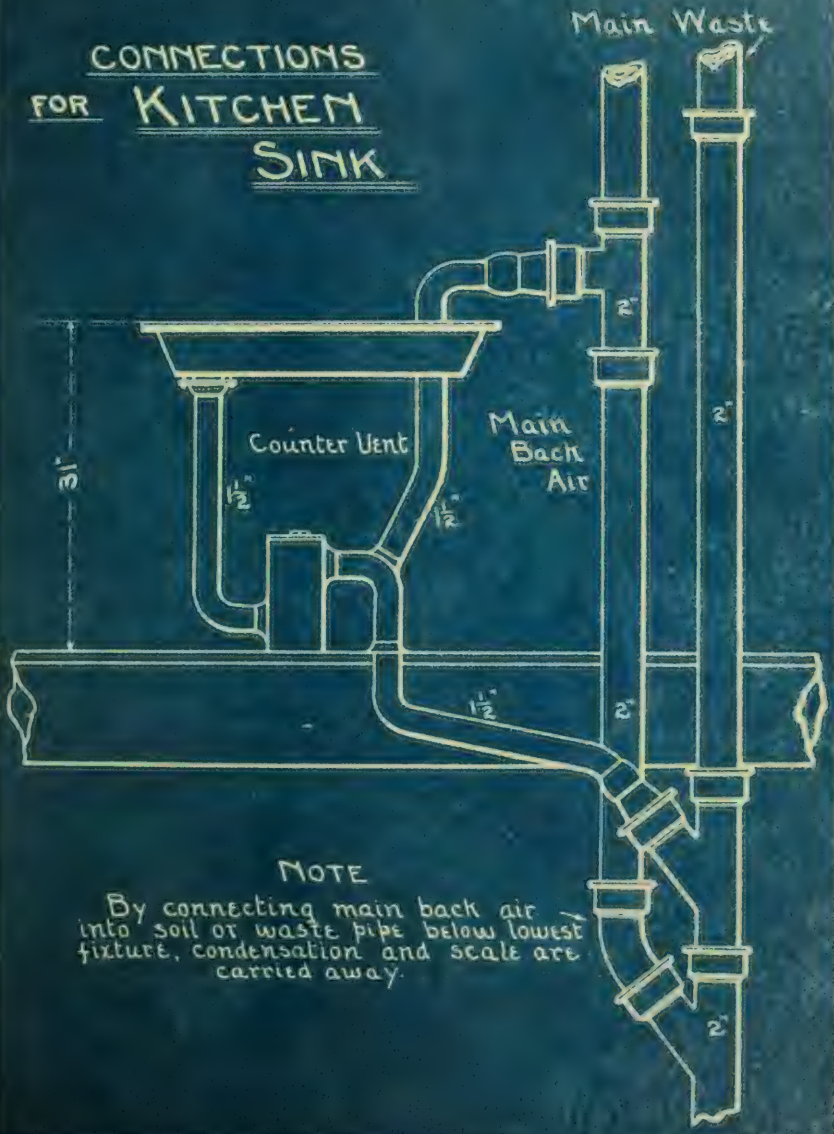



PLATE 3.

PLATE 4.

# CONNECTIONS FOR KITCHEN SINK




## NOTE

By connecting main back air into soil or waste pipe below lowest fixture, condensation and scale are carried away.

PLATE 5.

NOTE

Better practice to enter main back air into main waste, though method shown is sanitary

# CONNECTIONS FOR PANTRY SINK

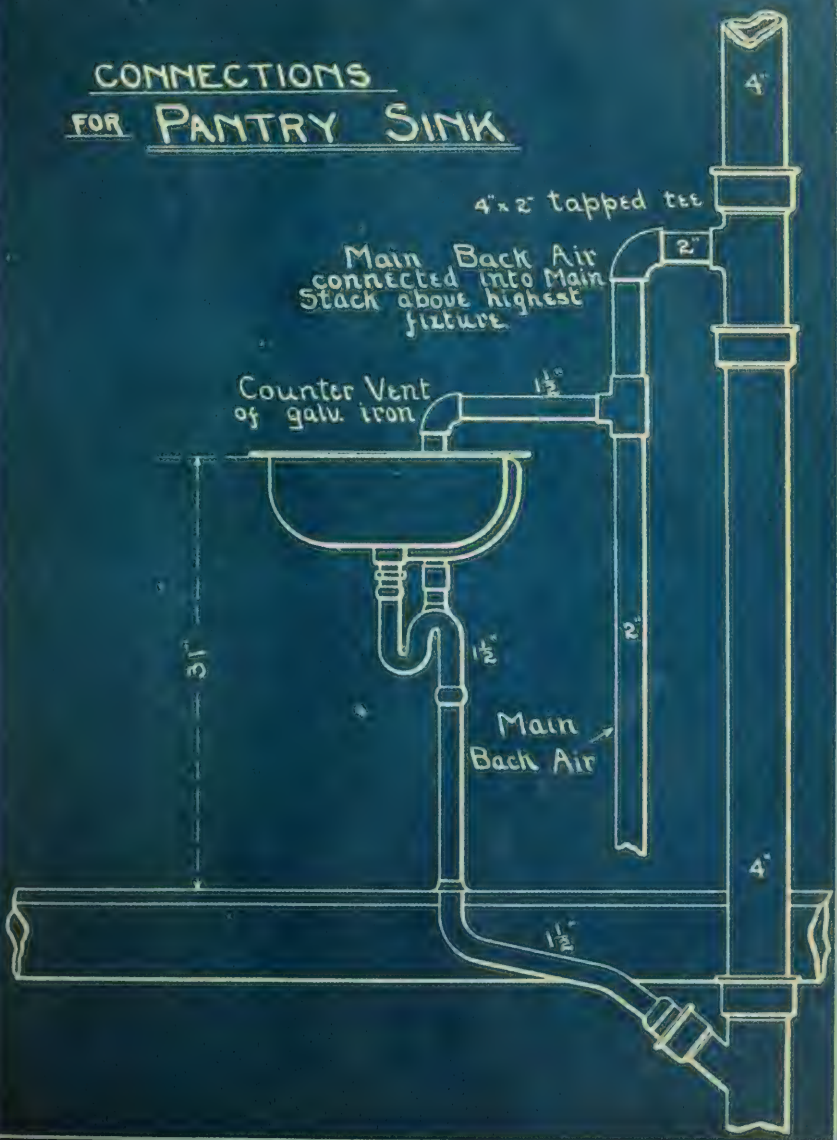


PLATE 7.

# CONNECTIONS FOR URINAL

PLATE B.

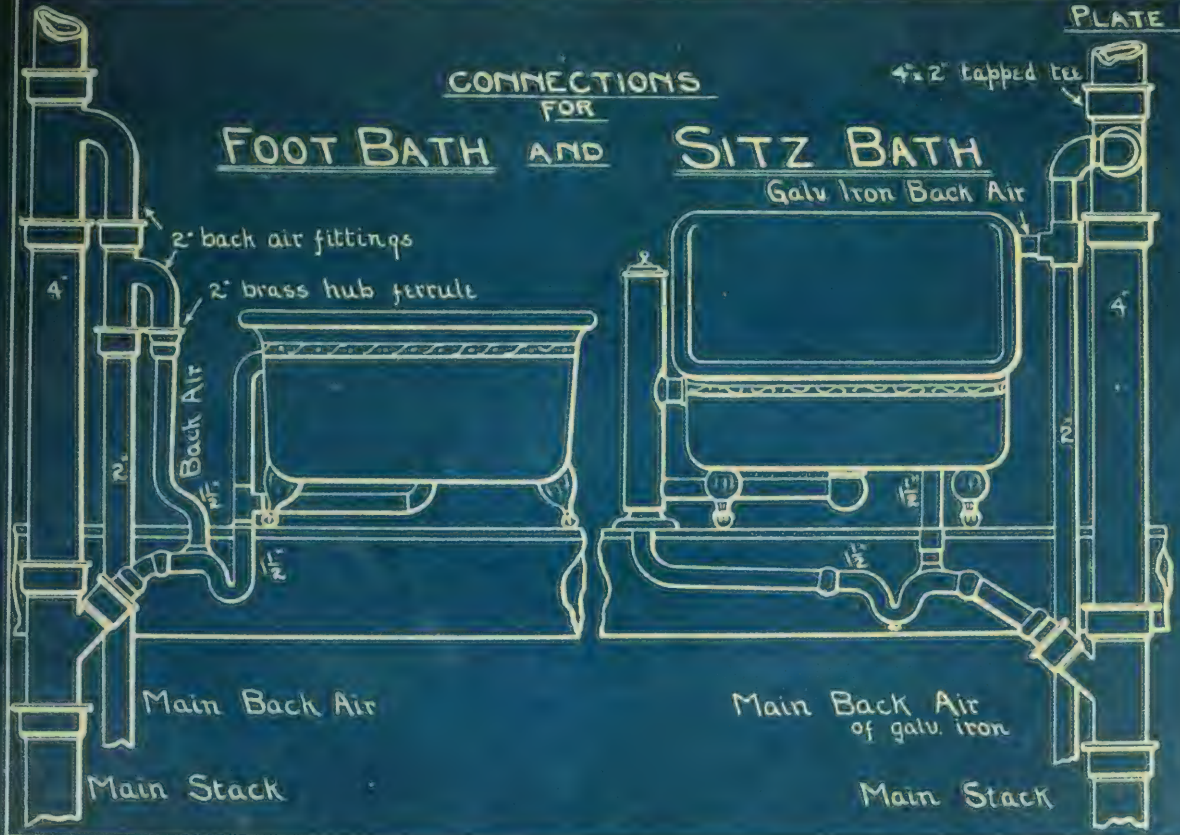
# CONNECTIONS FOR HOTEL SINK

## NOTE

The Grease Trap is surrounded by a cold water jacket, which causes the grease to separate and rise to the top, where it is taken out through a cover.

PLATE 9.

# CONNECTIONS FOR FOOT BATH AND SITZ BATH



# CONNECTIONS FOR SLOP HOPPERS

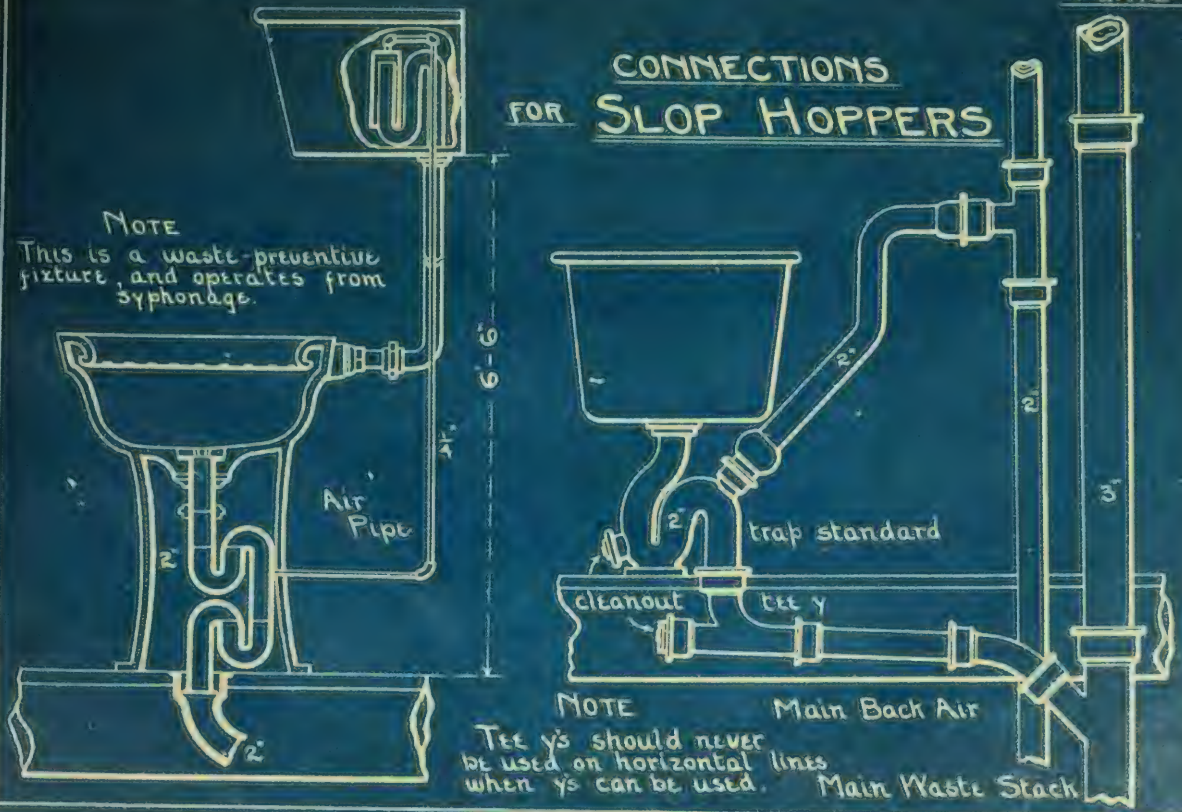


PLATE II.

# CONNECTIONS FOR REFRIGERATOR

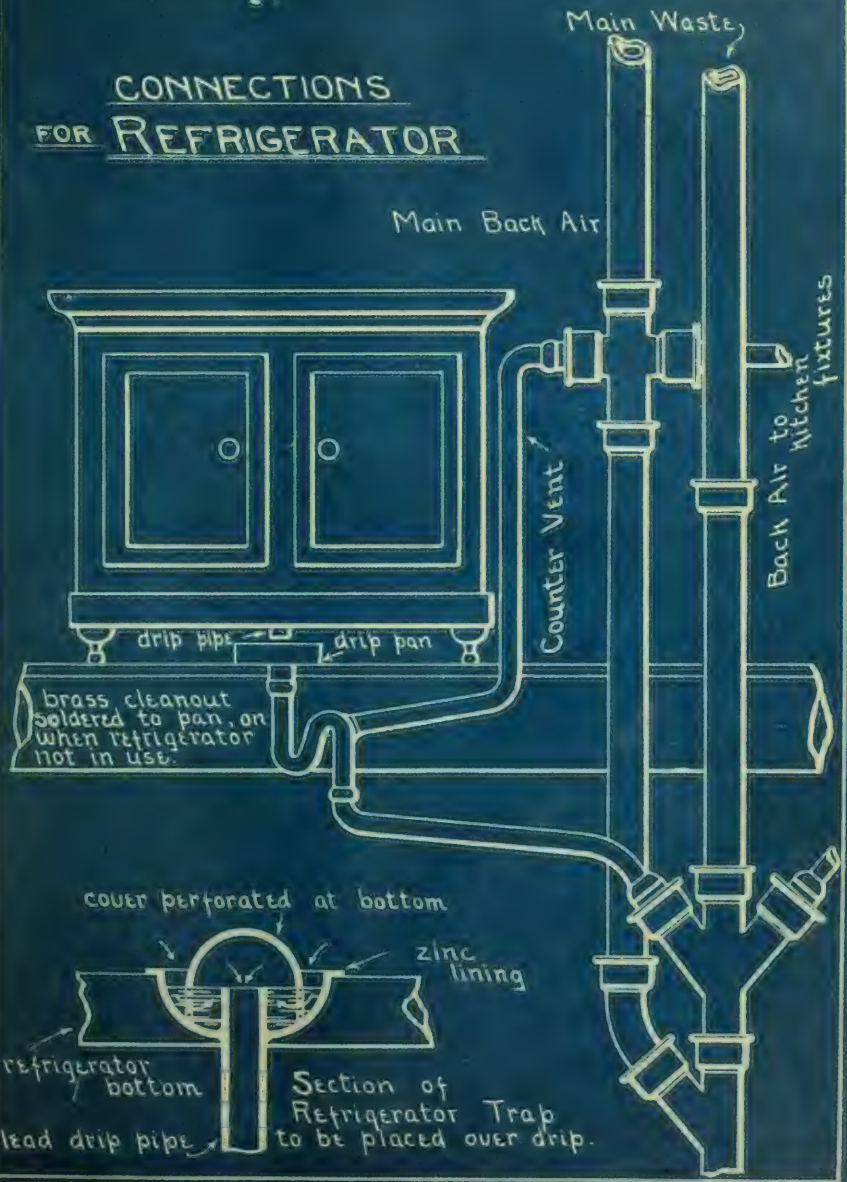
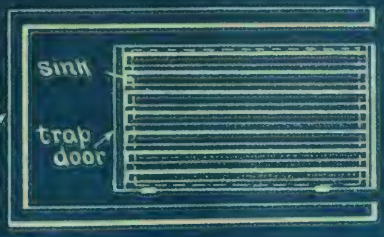


PLATE 12.




NOTE

Sketch shows position of sink and trap door relative to stall.

stall (end view)

# CONNECTIONS FOR HORSE STALL

Planks forming trap door run lengthwise of stall, with space between them for escape of refuse into sink.

Perforated cover to prevent escape of solid matter into waste

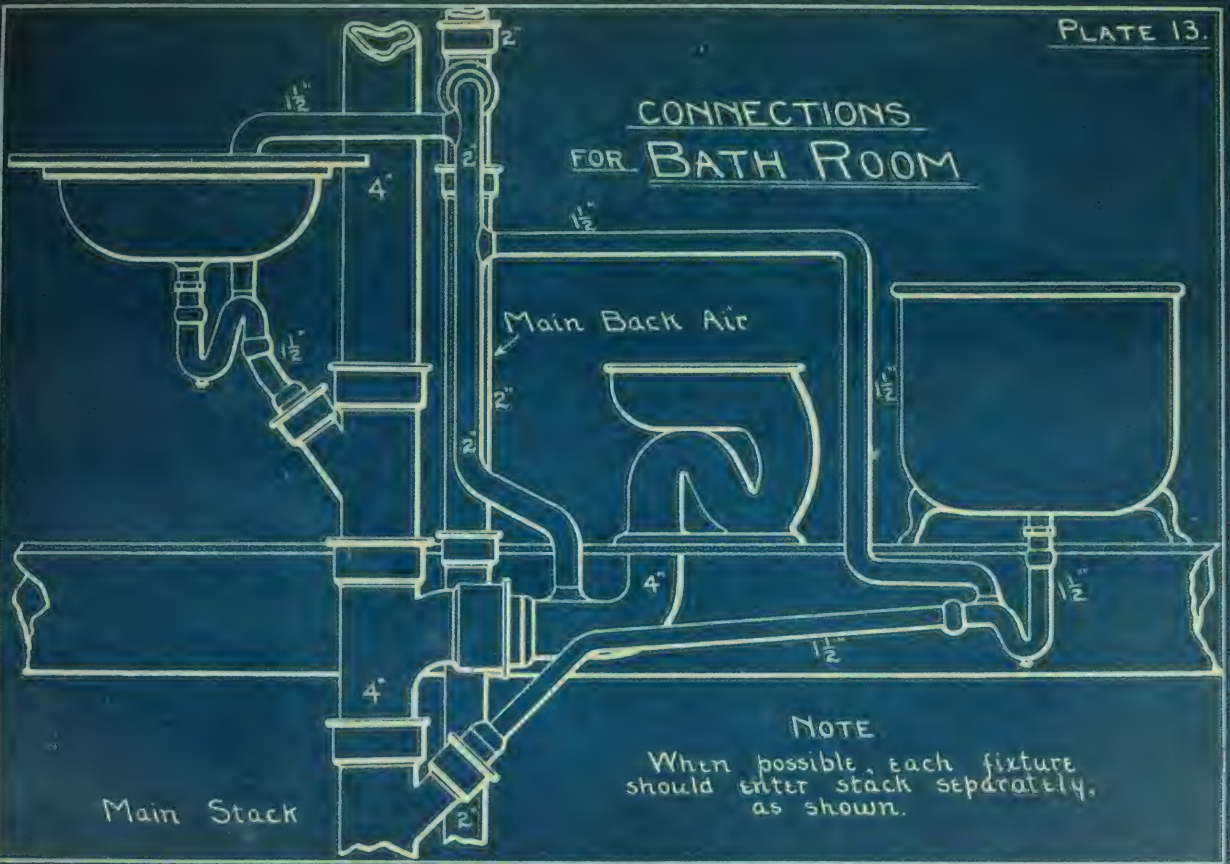
Cast iron sink about 3' x 5', all four sides of which pitch toward its centre

Vent

cleanout

PLATE 13.

# CONNECTIONS FOR BATH ROOM




NOTE

When possible, each fixture should enter stack separately, as shown.

PLATE 14.

# CONNECTIONS FOR BATH ROOM

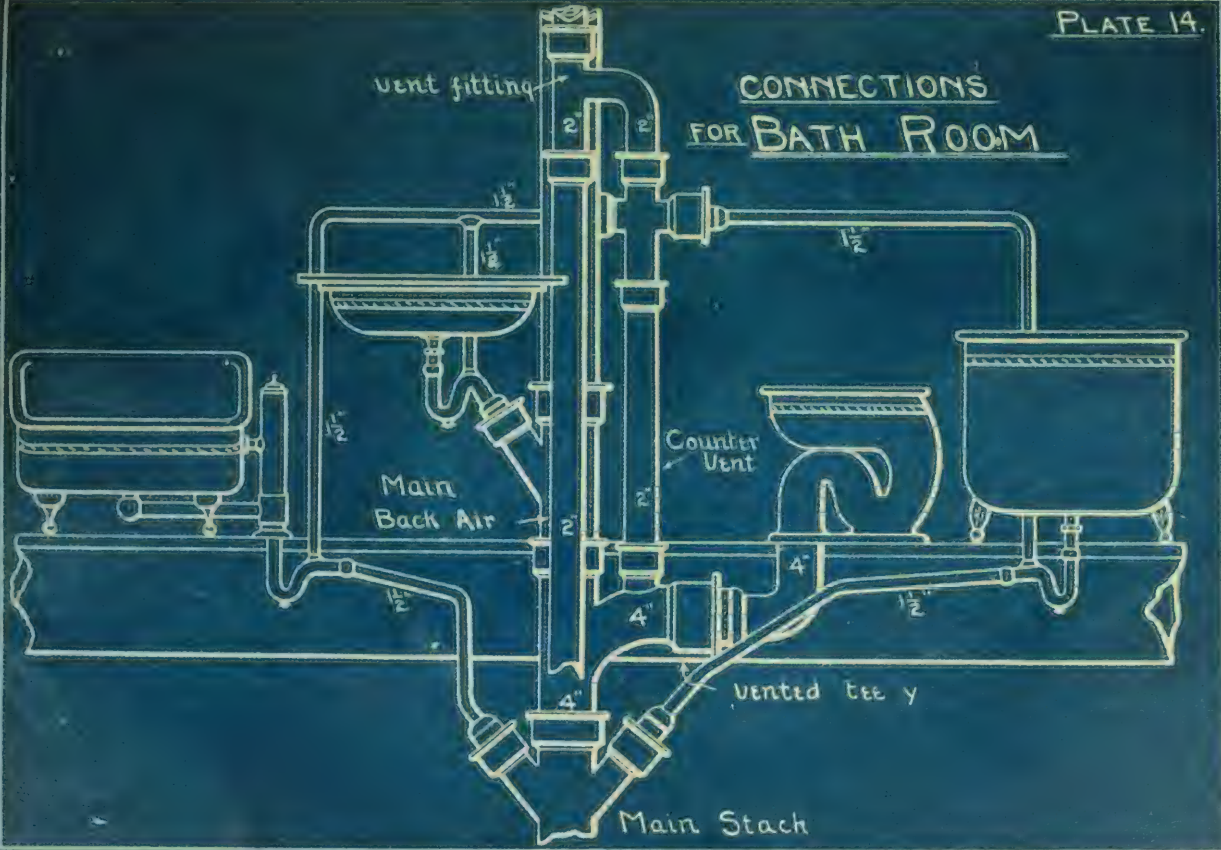
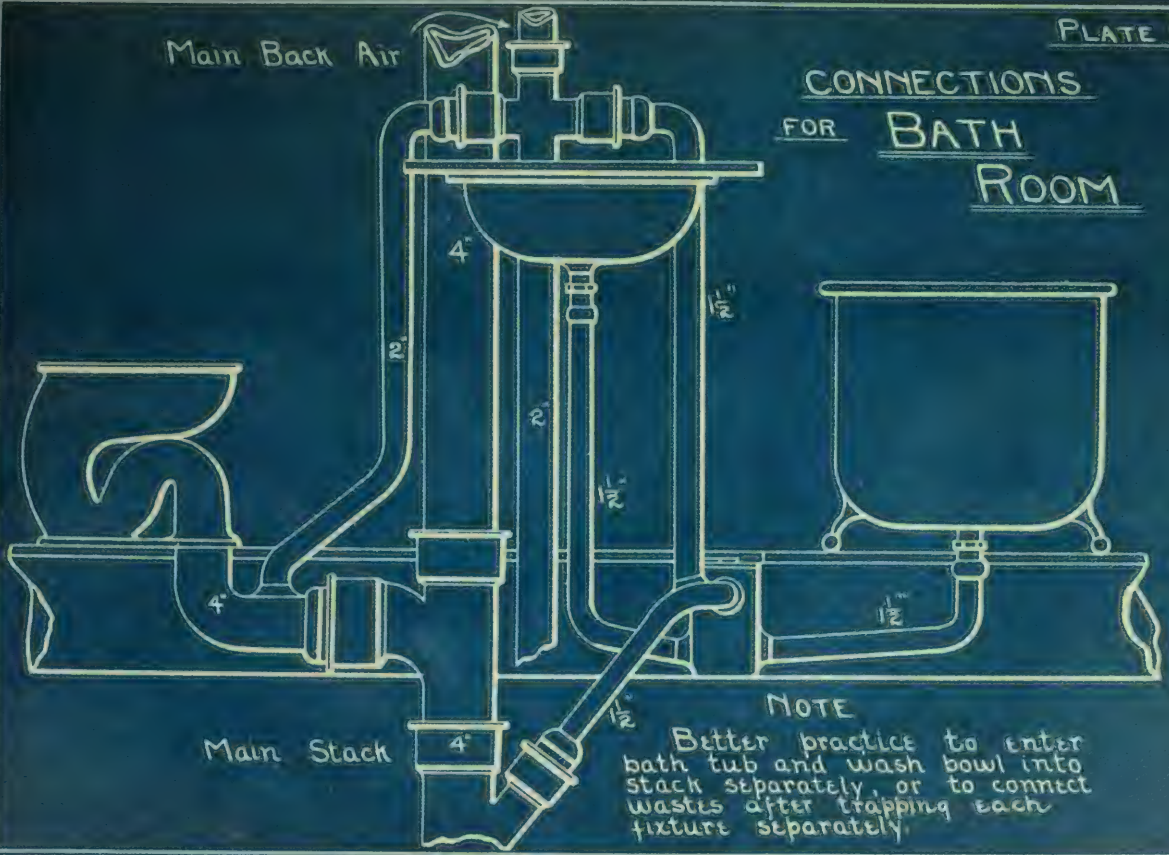


PLATE 15.

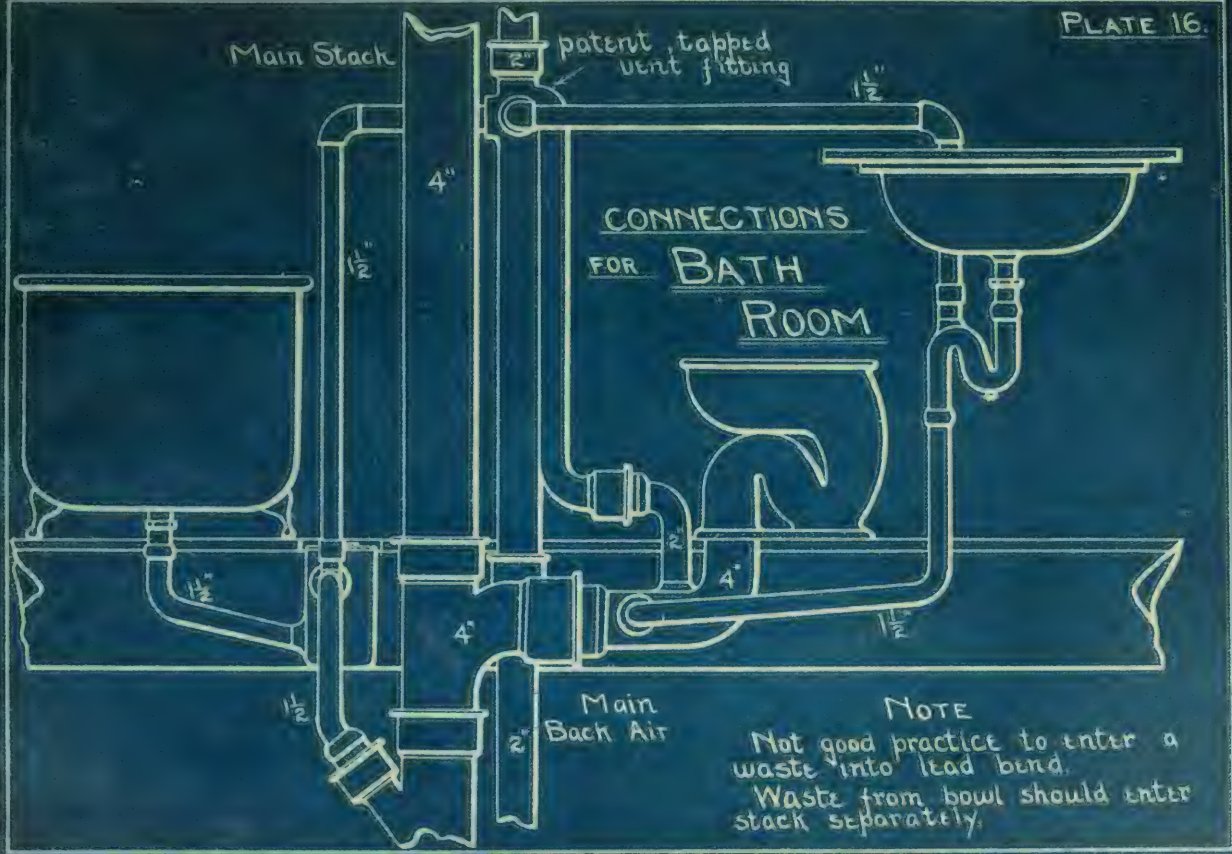
# CONNECTIONS FOR BATH ROOM




NOTE

Better practice to enter bath tub and wash bowl into stack separately, or to connect wastes after trapping each fixture separately.

PLATE 16.




NOTE

Not good practice to enter a waste into lead bend.

Waste from bowl should enter stack separately.

PLATE 17.

# THREE METHODS OF BACK VENTING WATER CLOSETS

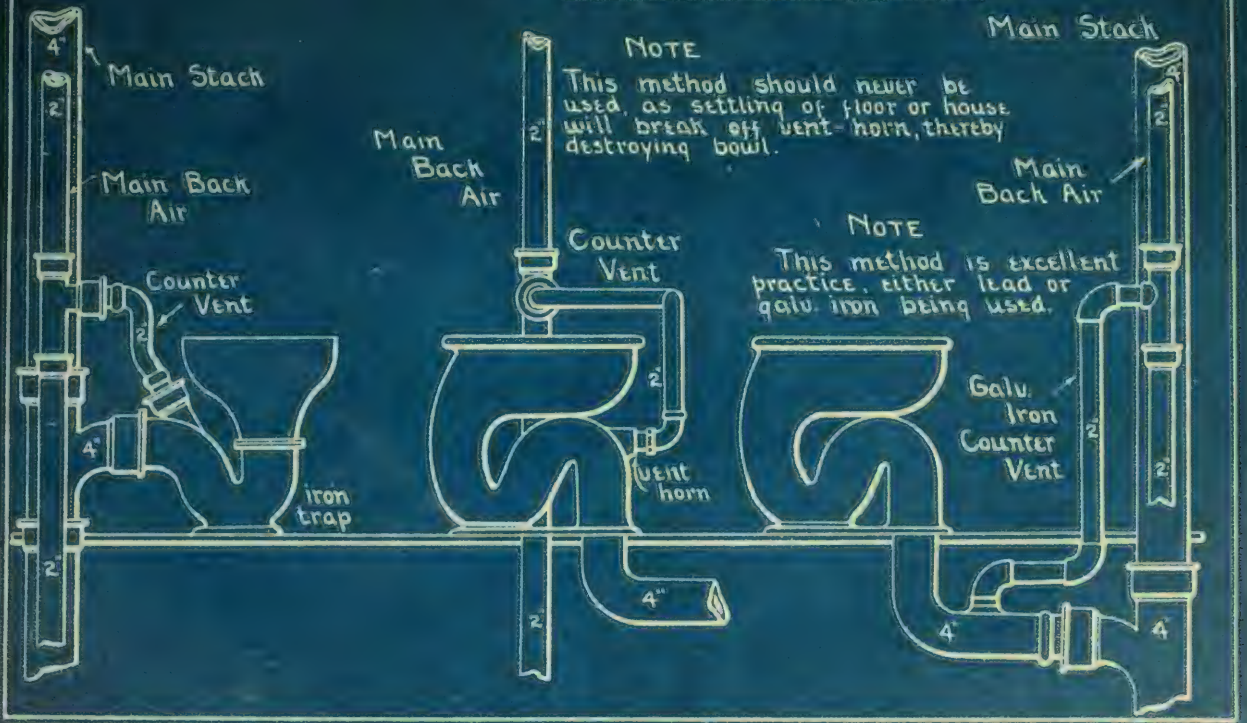
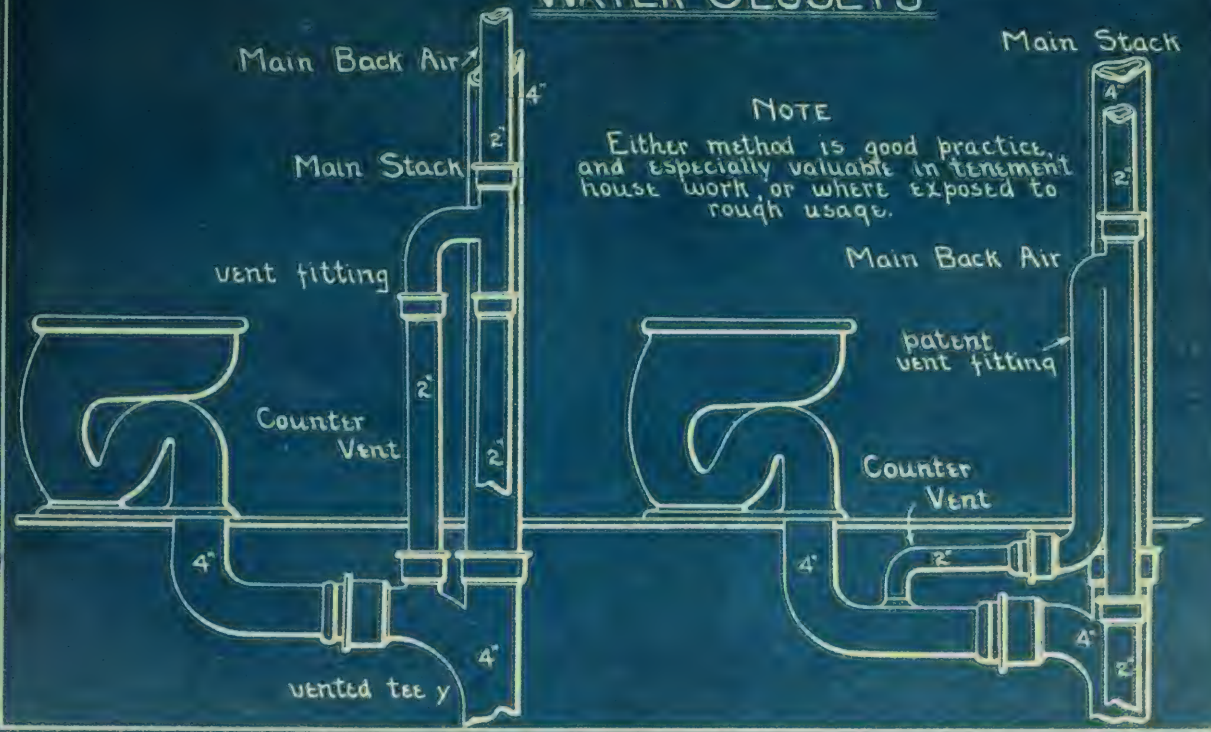


PLATE 18.

# TWO METHODS OF BACK VENTING WATER CLOSETS




NOTE

Either method is good practice, and especially valuable in tenement house work, or where exposed to rough usage.

PLATE 19.

# ANTI-FREEZING WATER CLOSET

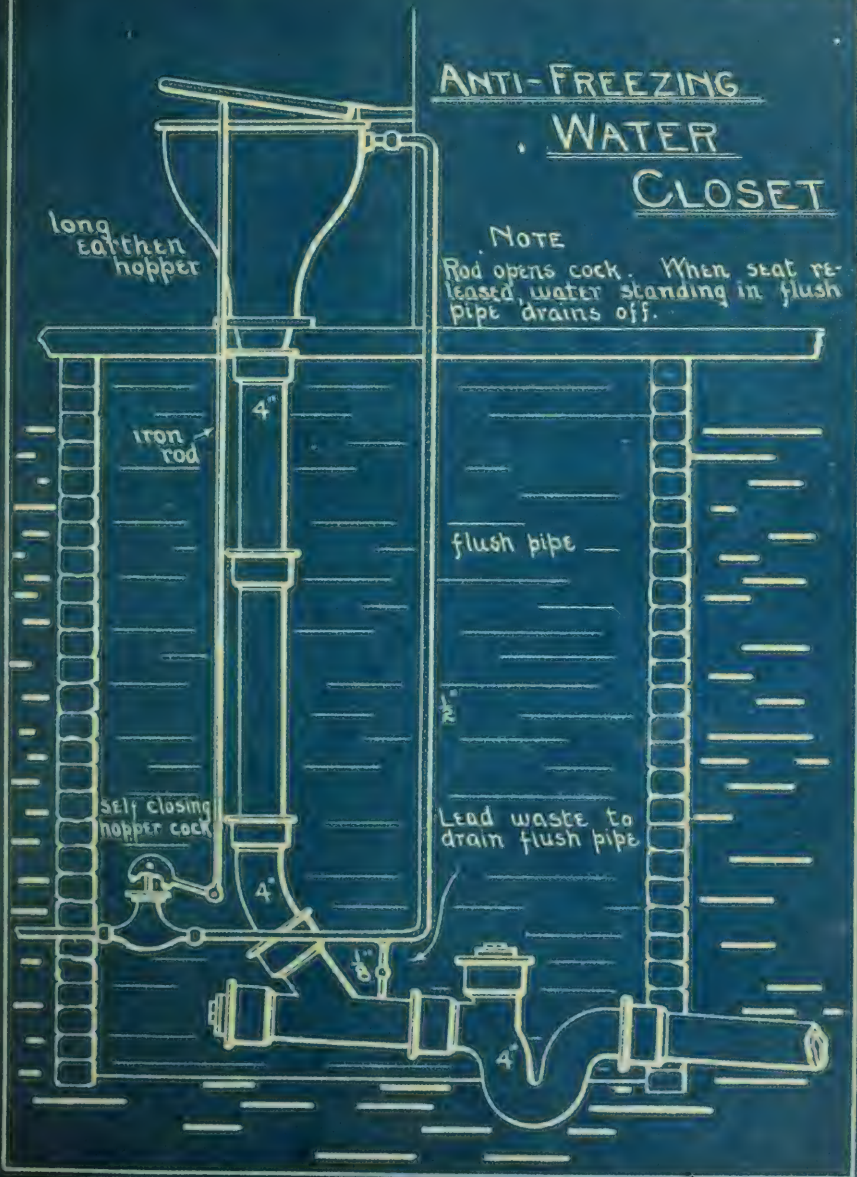
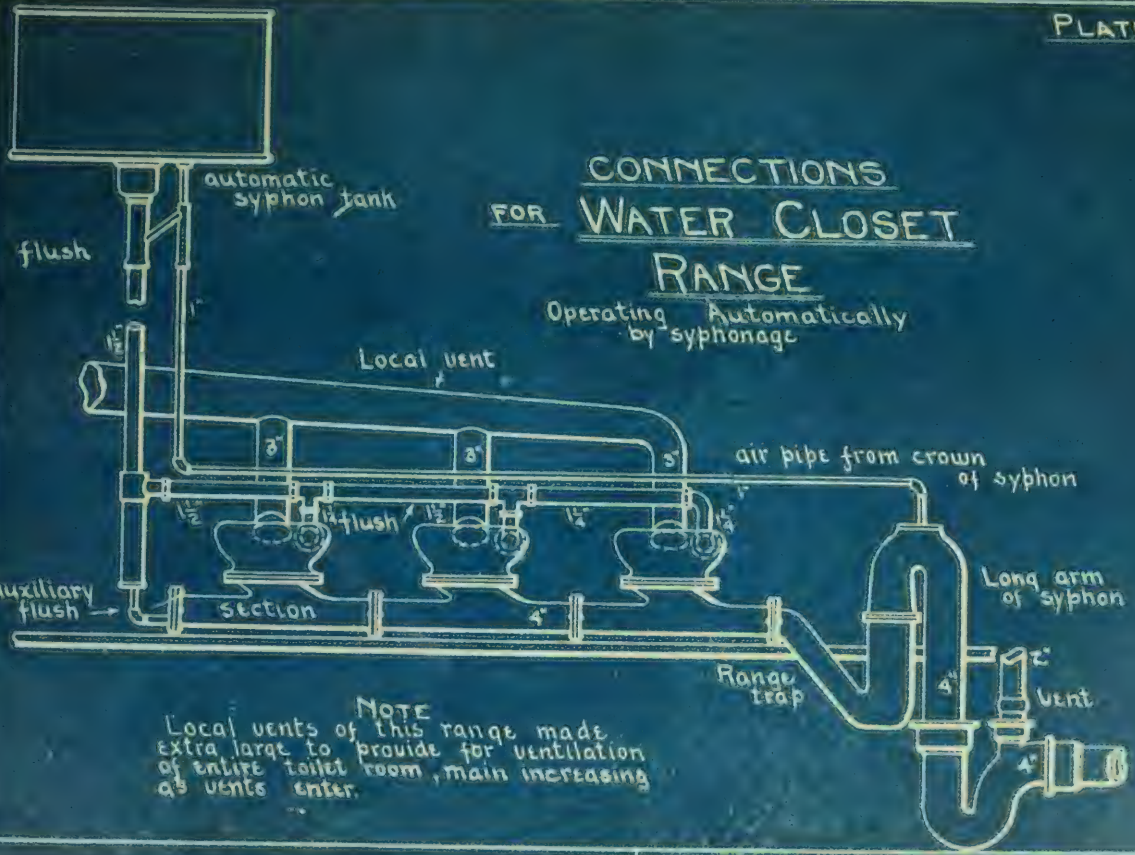


PLATE 20.

# CONNECTIONS FOR WATER CLOSET RANGE

Operating Automatically by syphonage




NOTE

Local vents of this range made extra large to provide for ventilation of entire toilet room, main increasing as vents enter.

# CONNECTIONS FOR LINE OF REFRIGERATORS

PLATE 21.

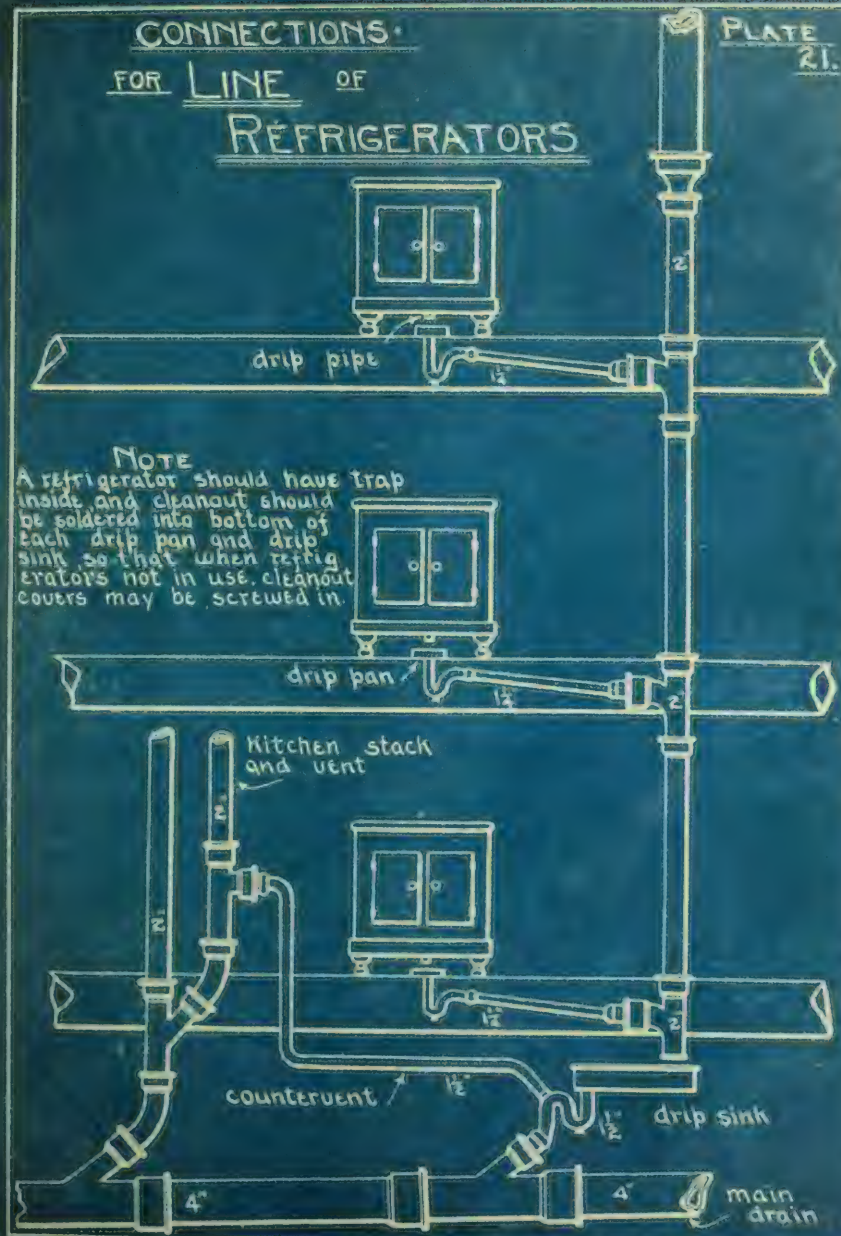


PLATE 22.

# TWO METHODS OF LOCAL VENTING

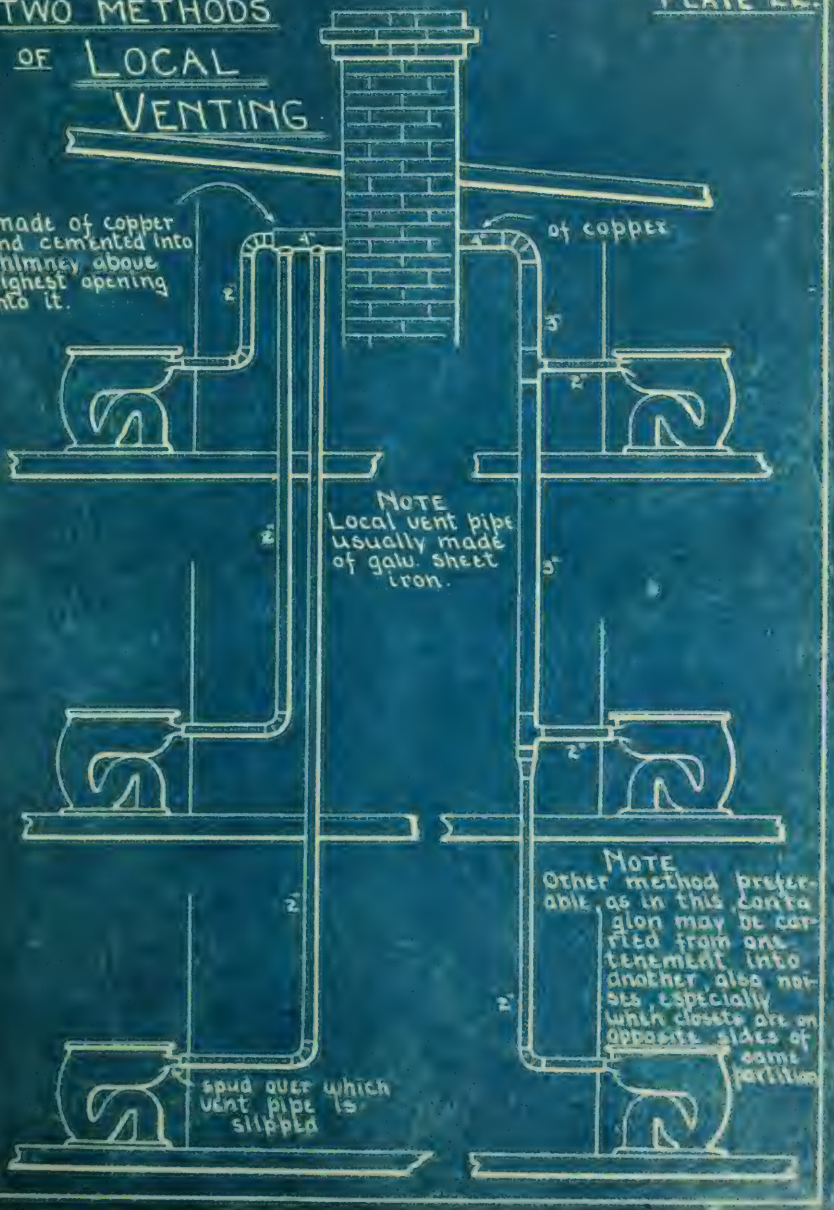

made of copper and cemented into chimney above highest opening into it.
of copper
4"
4"
2"
3"
2"
NOTE
Local vent pipe usually made of galv. sheet iron.
2"
3"
2"
2"
NOTE
Other method preferable, as in this contagion may be carried from one tenement into another, also noises, especially when closets are on opposite sides of same partition
spud over which vent pipe is slipped

PLATE 23.

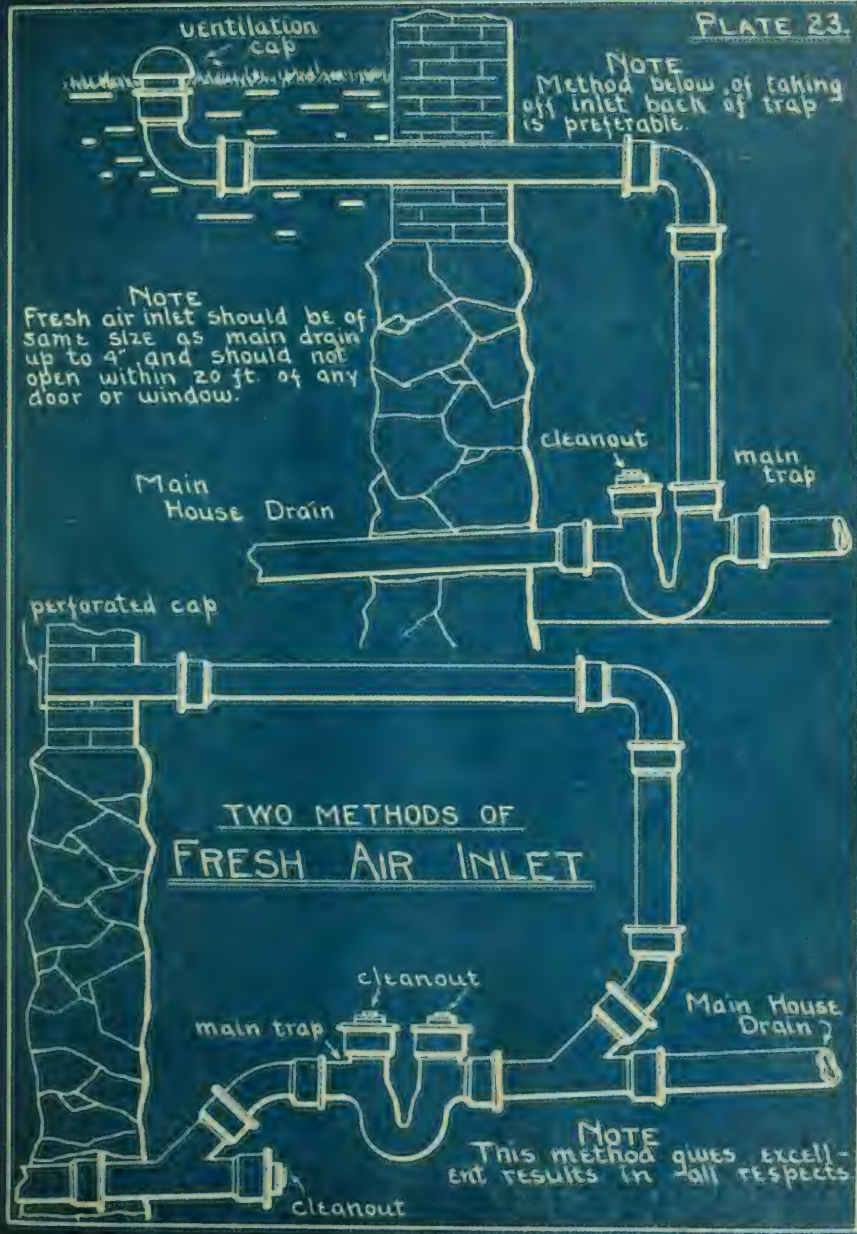

ventilation cap
NOTE
Method below of taking off inlet back of trap is preferable.
NOTE
Fresh air inlet should be of same size as main drain up to 4" and should not open within 20 ft of any door or window.
cleanout
main trap
Main House Drain
perforated cap
TWO METHODS OF
FRESH AIR INLET
cleanout
main trap
Main House Drain
NOTE
This method gives excellent results in all respects
cleanout

PLATE 24.

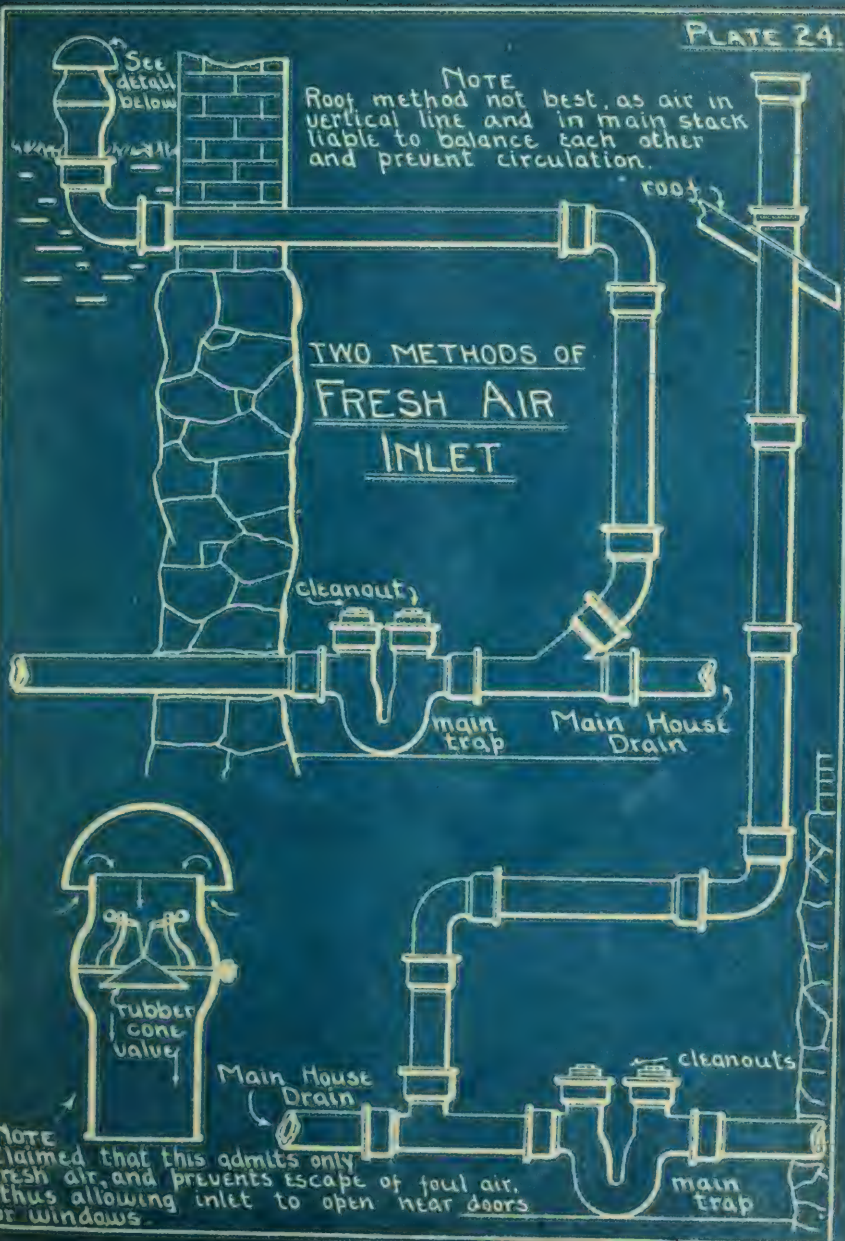
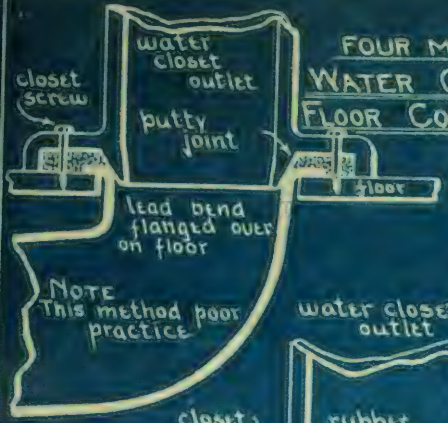
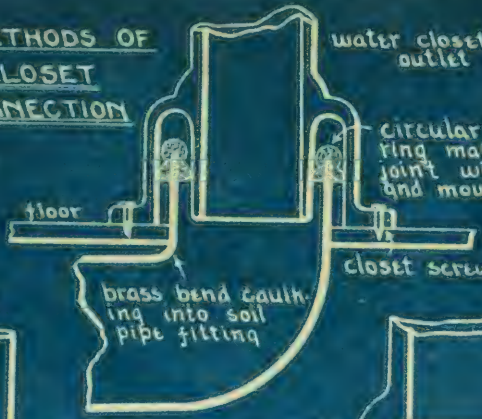
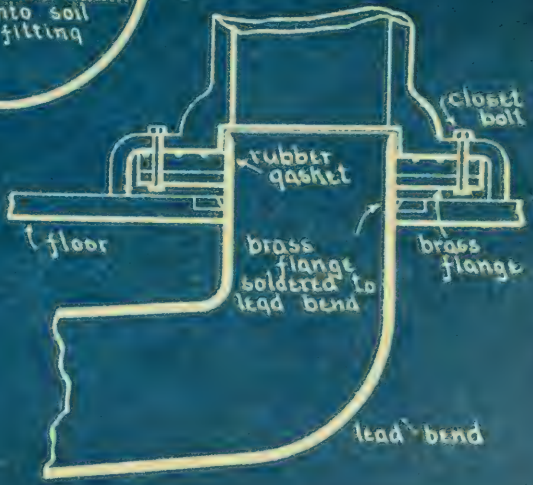

See detail below
NOTE
Roof method not best, as air in vertical line and in main stack liable to balance each other and prevent circulation.
roof
TWO METHODS OF
FRESH AIR
INLET
cleanout
main trap
Main House Drain
rubber cone valve
Main House Drain
cleanouts
main trap
NOTE
Claimed that this admits only fresh air, and prevents escape of foul air, thus allowing inlet to open near doors or windows.

PLATE 25.

# FOUR METHODS OF WATER CLOSET FLOOR CONNECTION



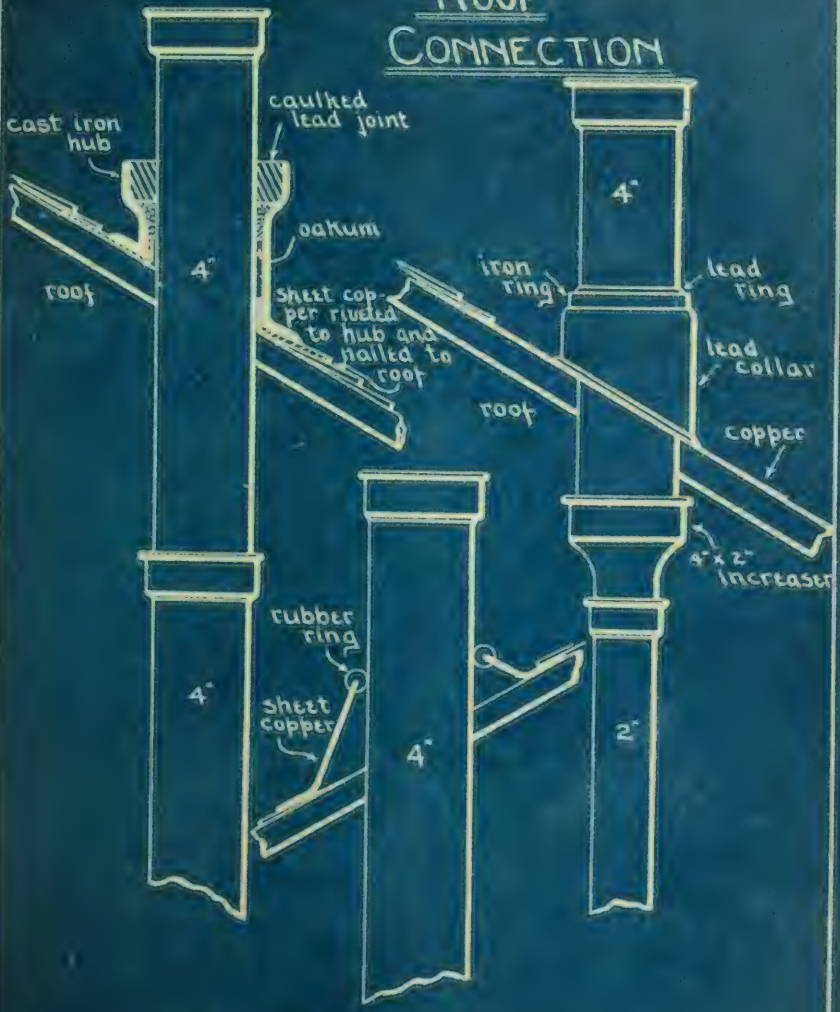


water closet outlet
circular rubber ring making air-tight joint with crockery, and movable.
floor
closet screw
brass bend caulking into soil pipe fitting



THREE METHODS OF

PLATE 26.

# ROOF CONNECTION




NOTE

A pipe of less than 4" should be increased to at least 4" before passing through roof, to prevent closing up of a smaller opening by hoar frost.

TWO METHODS OF

# ROOF CONNECTION

PLATE 27.

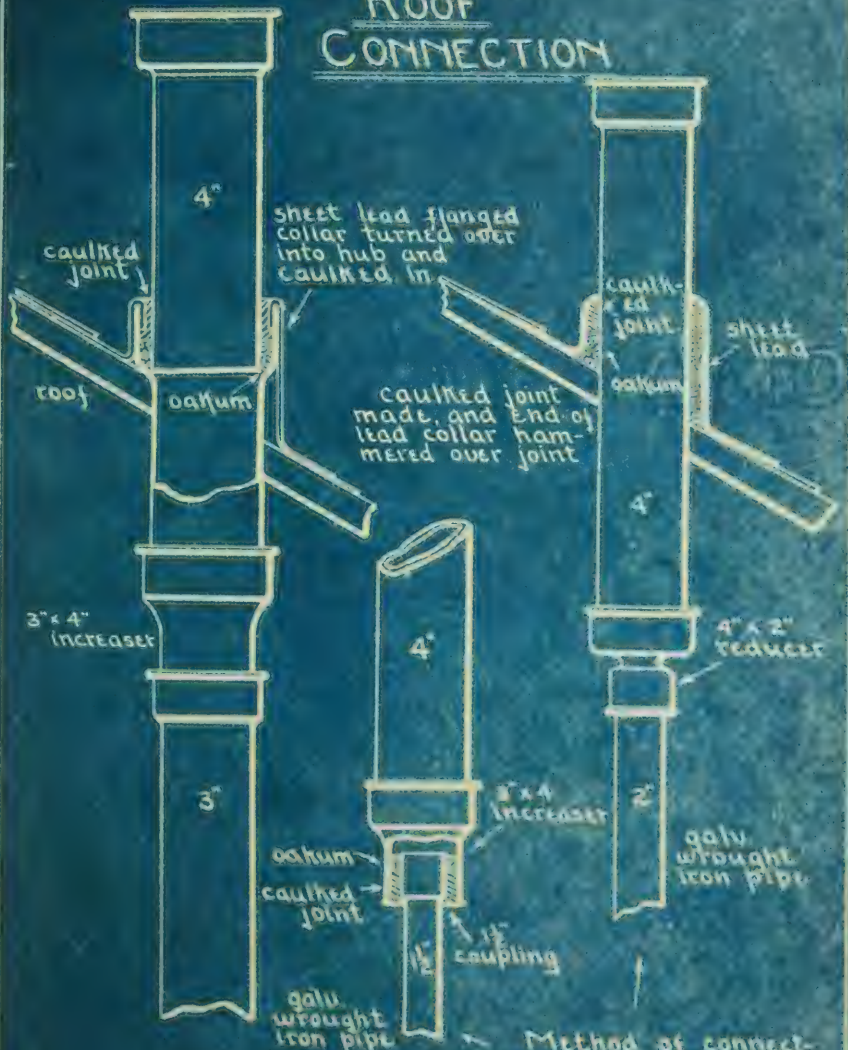


PLATE 28.

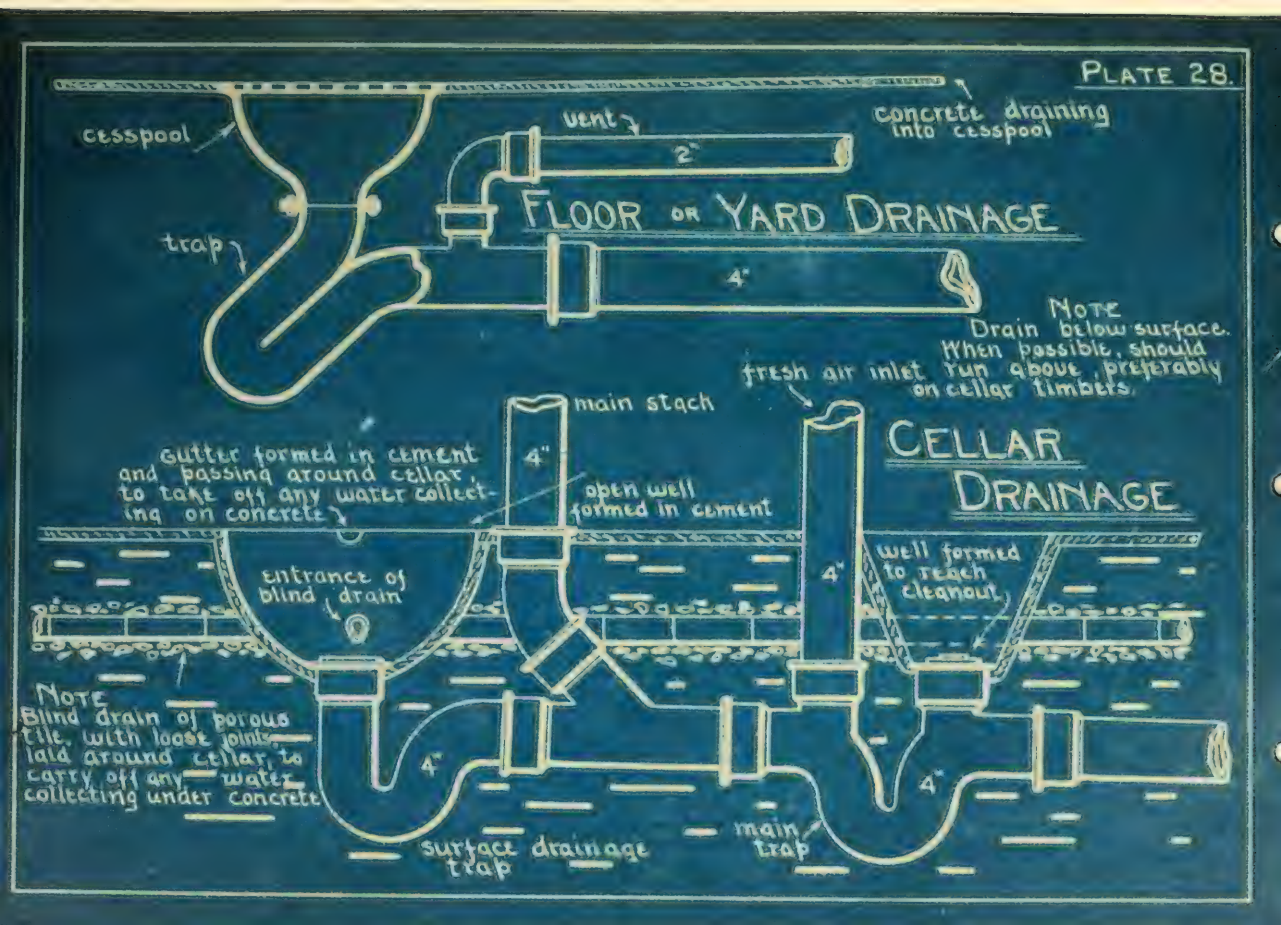

cesspool
vent
2"
concrete draining into cesspool
FLOOR OR YARD DRAINAGE
trap
4"
NOTE
Drain below surface. When possible, should run above, preferably on cellar timbers.
fresh air inlet
main stack
CELLAR DRAINAGE
4"
Gutter formed in cement and passing around cellar, to take off any water collecting on concrete
open well formed in cement
entrance of blind drain
well formed to reach cleanout
4"
NOTE
Blind drain of porous tile, with loose joints, laid around cellar, to carry off any water collecting under concrete
4"
4"
surface drainage trap
main trap

PLATE 29.

# METHODS OF SUPPORTING HORIZONTAL AND VERTICAL LINES OF SOIL PIPE

# TWO METHODS of ENTERING VERTICAL STACK

PLATE 30.

patent adjustable screw fitting open
fitting closed
caulked joint
lead ring
patent fitting
NOTE
Lead ring slipped on, then fitting which is set down into hub below, and lead ring caulked in.
NOTE
Fitting closed and set into lower hub, this and upper joint being made. Fitting then unscrewed and two upper joints completed.

PLATE 31.

# CONNECTIONS FOR MODERN CESSPOOL

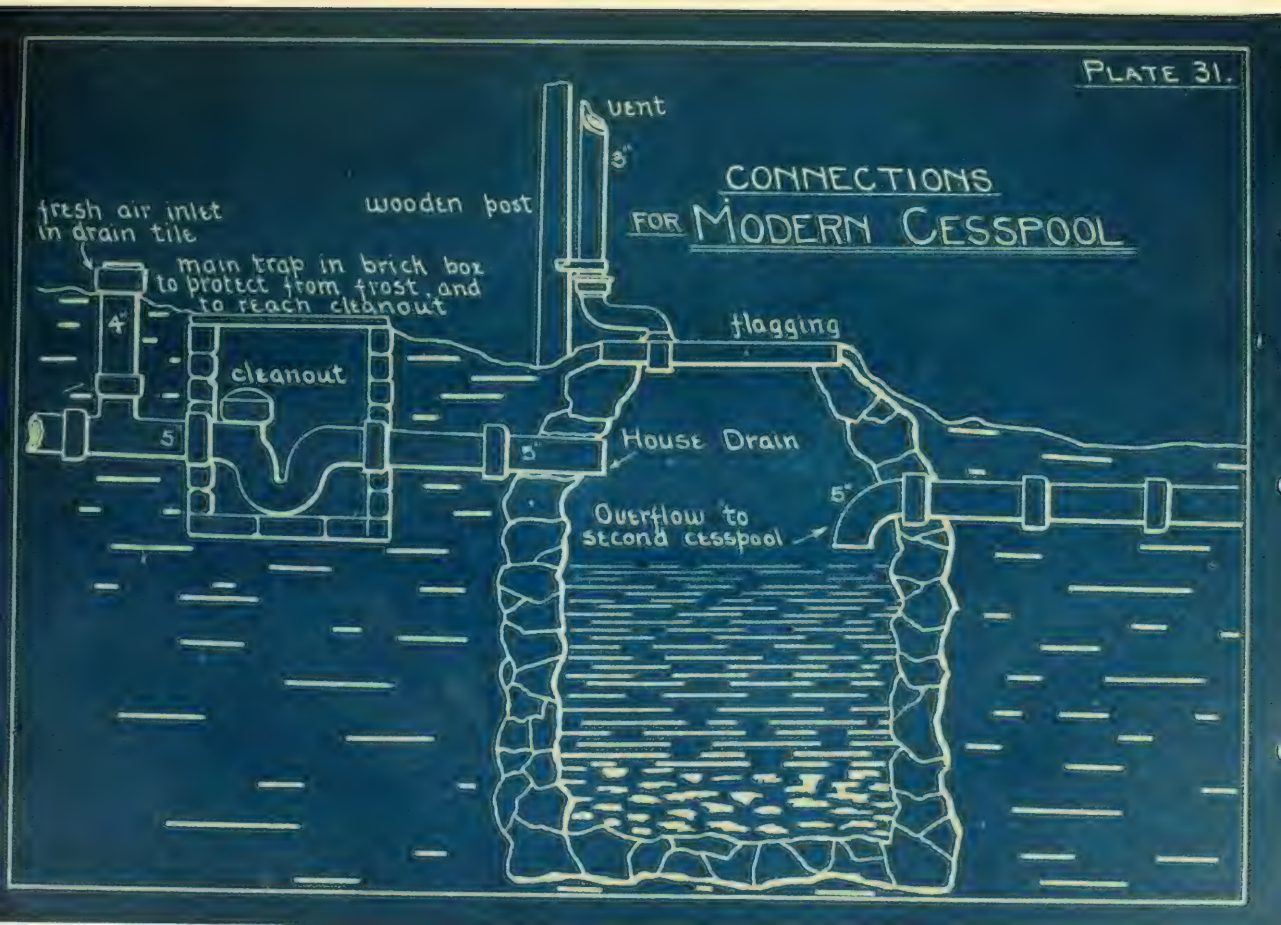
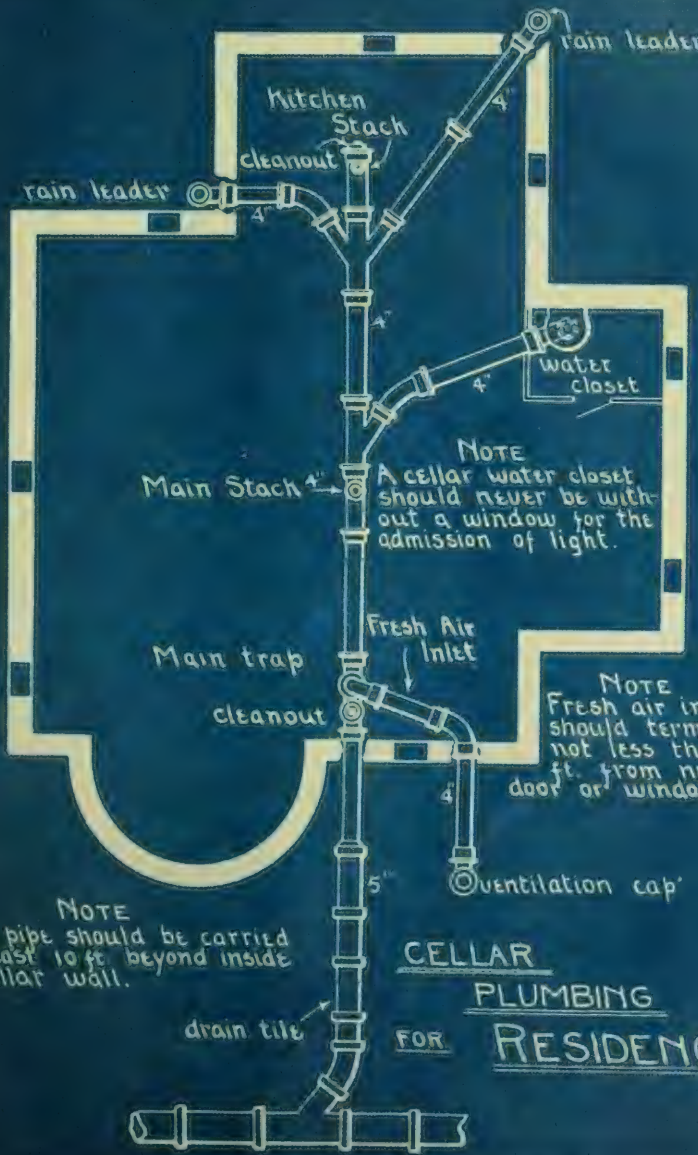
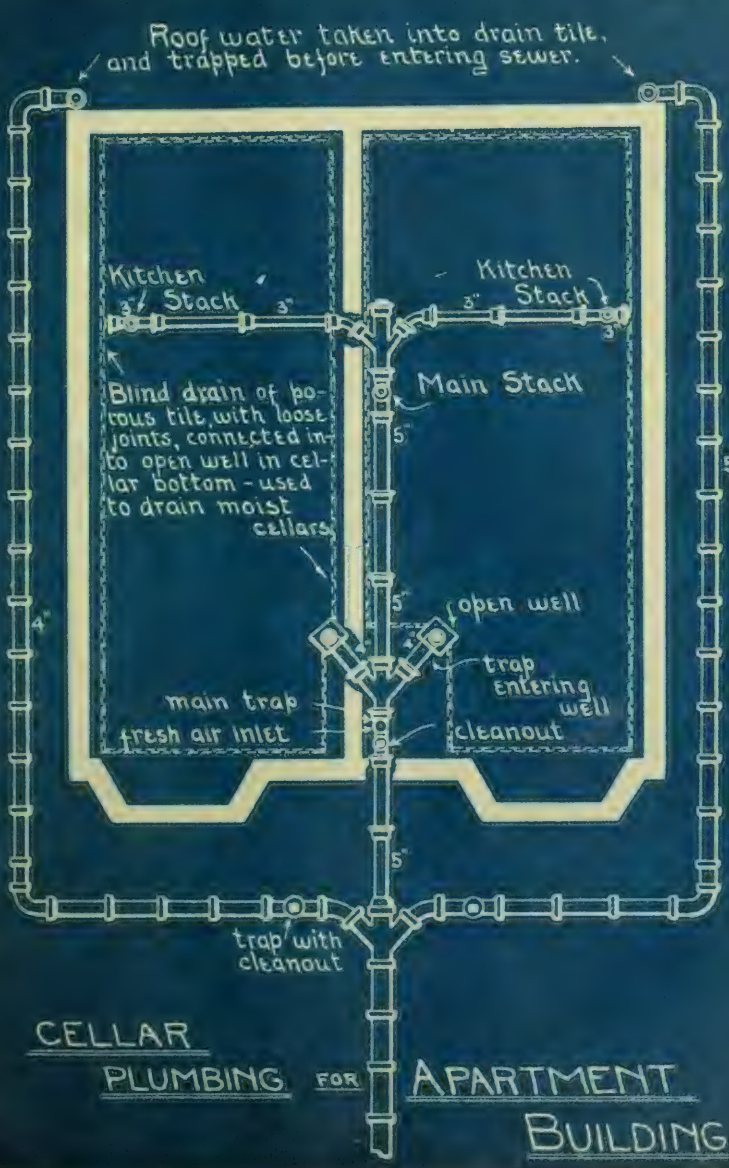


PLATE 32.



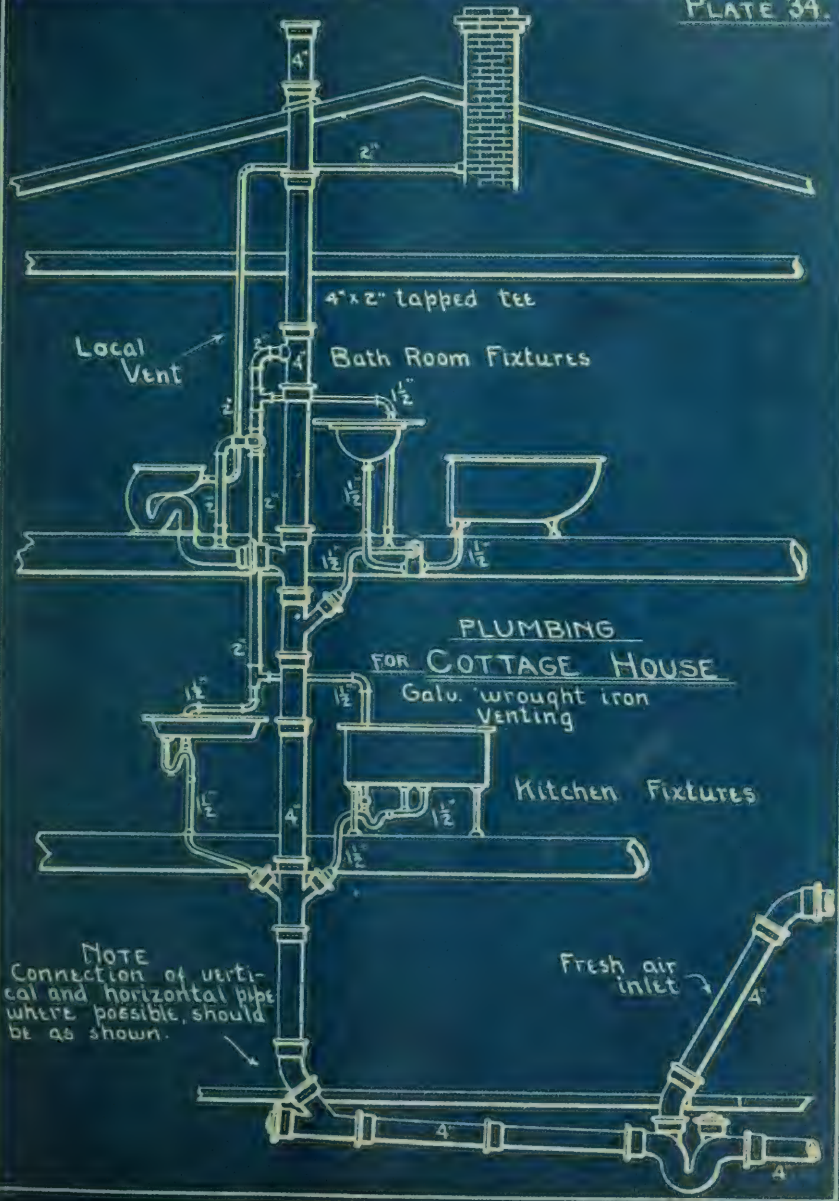

# CELLAR PLUMBING FOR RESIDENCE

PLATE 33.




CELLAR PLUMBING FOR APARTMENT BUILDING

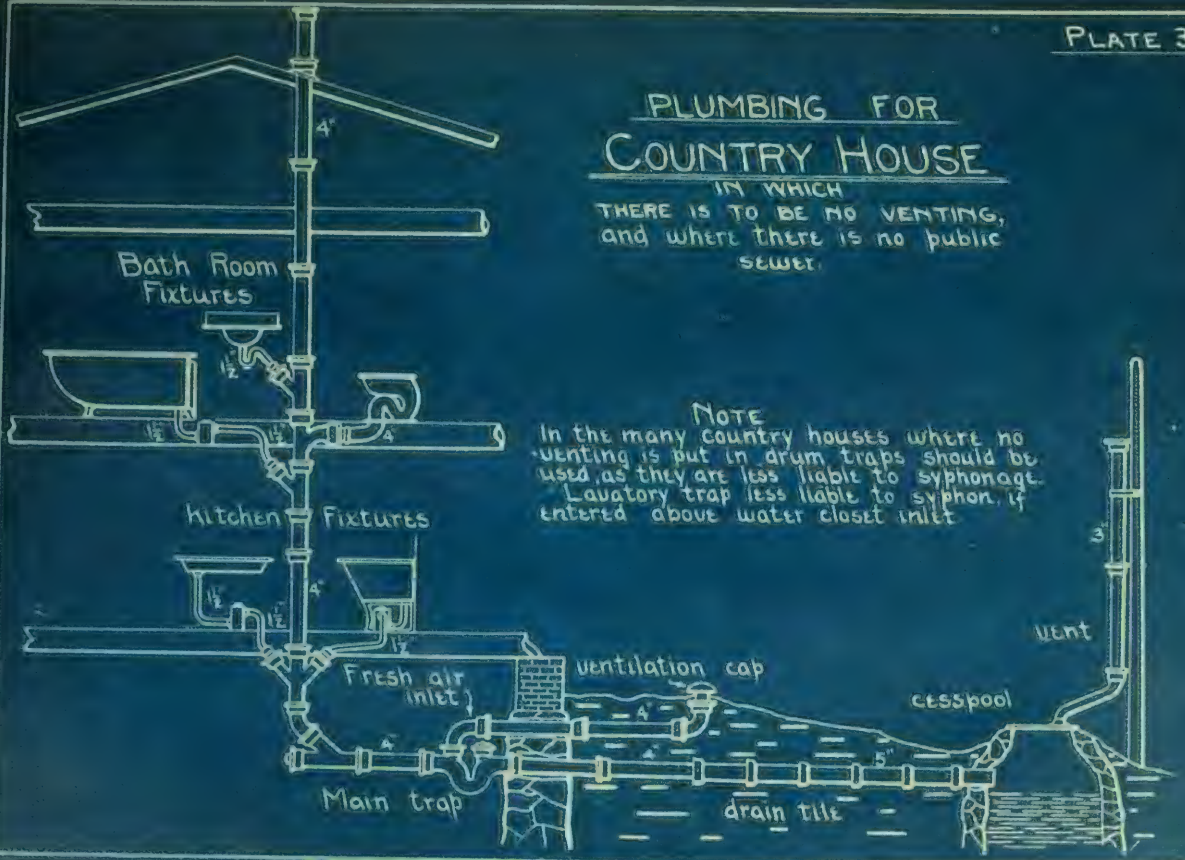
PLATE 34.


4"
2"
4"x2" tapped tee
Local Vent
Bath Room Fixtures
1½"
2"
4"
PLUMBING
FOR COTTAGE HOUSE
Galv. wrought iron Venting
Kitchen Fixtures
NOTE
Connection of vertical and horizontal pipe where possible, should be as shown.
Fresh air inlet

# PLUMBING FOR COUNTRY HOUSE

IN WHICH

THERE IS TO BE NO VENTING, and where there is no public sewer.




## NOTE

In the many country houses where no venting is put in, drum traps should be used, as they are less liable to syphonage.

Lavatory trap less liable to syphon, if entered above water closet inlet

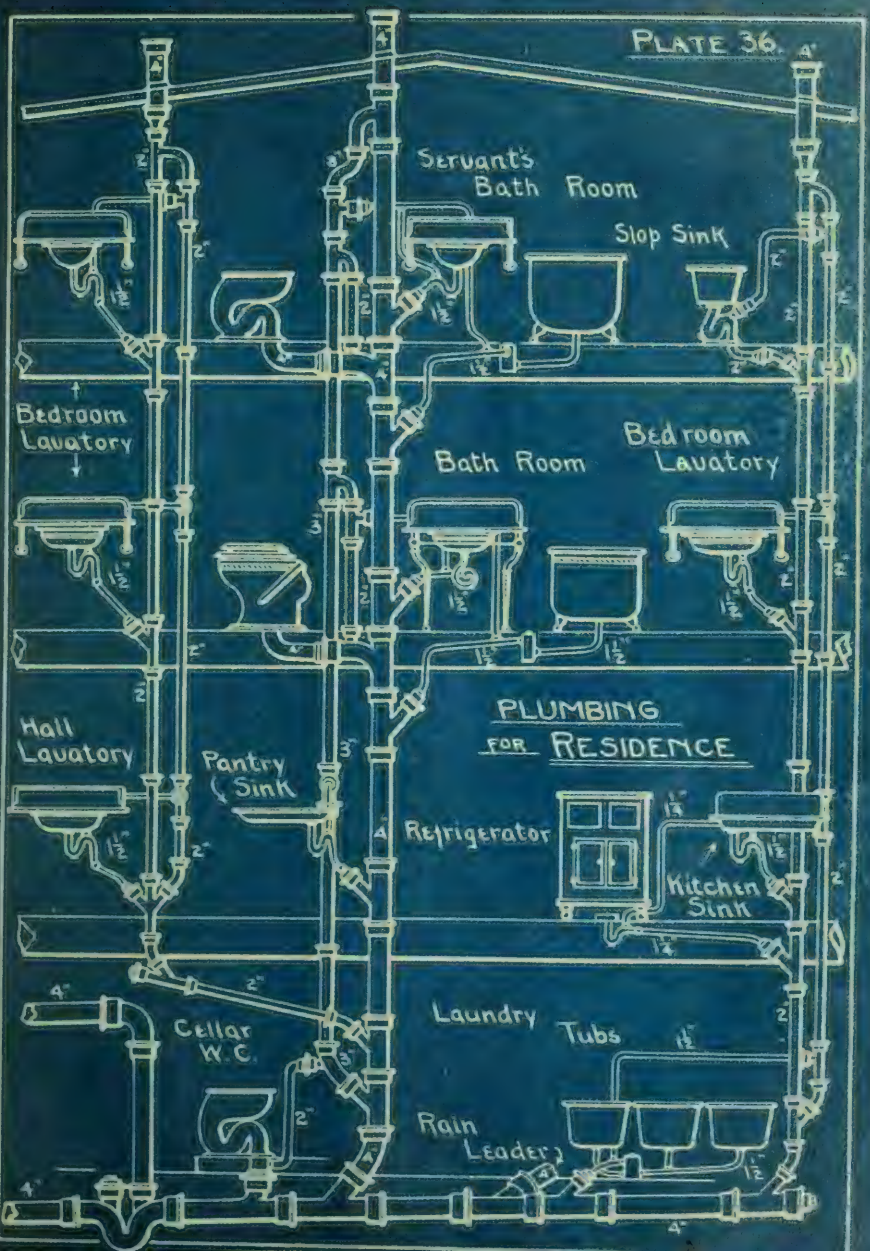


PLATE 36.
Servant's Bath Room
Slop Sink
Bedroom Lavatory
Bath Room
Bedroom Lavatory
Hall Lavatory
Pantry Sink
PLUMBING FOR RESIDENCE
Refrigerator
Kitchen Sink
Cellar W.C.
Laundry Tubs
Rain Leader

PLATE 37.

# ROUGHING FOR TWO TENEMENT HOUSE

## SHOWING WORK UNDER WATER TEST.

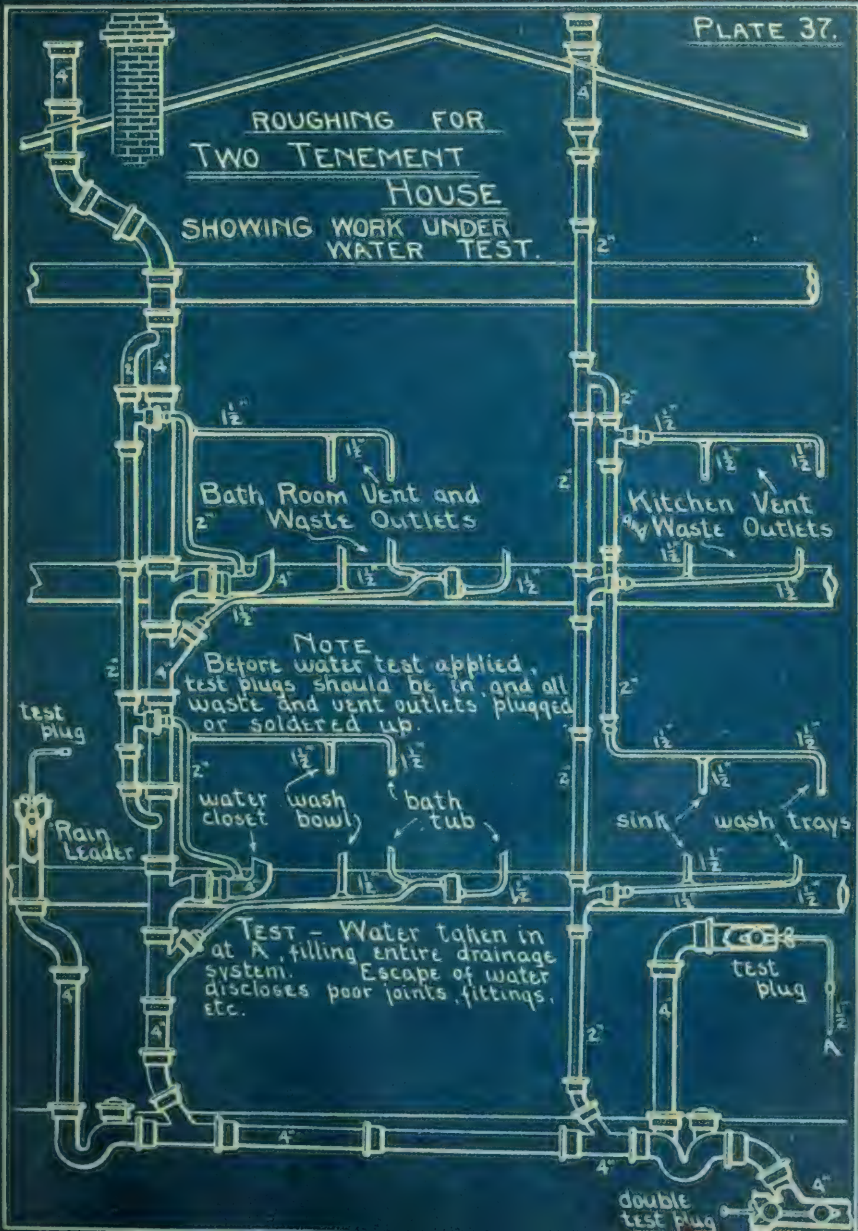

Bath Room Vent and Waste Outlets
Kitchen Vent & Waste Outlets
NOTE
Before water test applied, test plugs should be in and all waste and vent outlets plugged or soldered up.
test plug
water closet
wash bowl
bath tub
Rain Leader
sink
wash trays
TEST – Water taken in at A, filling entire drainage system. Escape of water discloses poor joints, fittings, etc.
test plug
double test plug

PLATE 38.

# PLUMBING FOR TWO-TENEMENT HOUSE

showing work ready for peppermint test

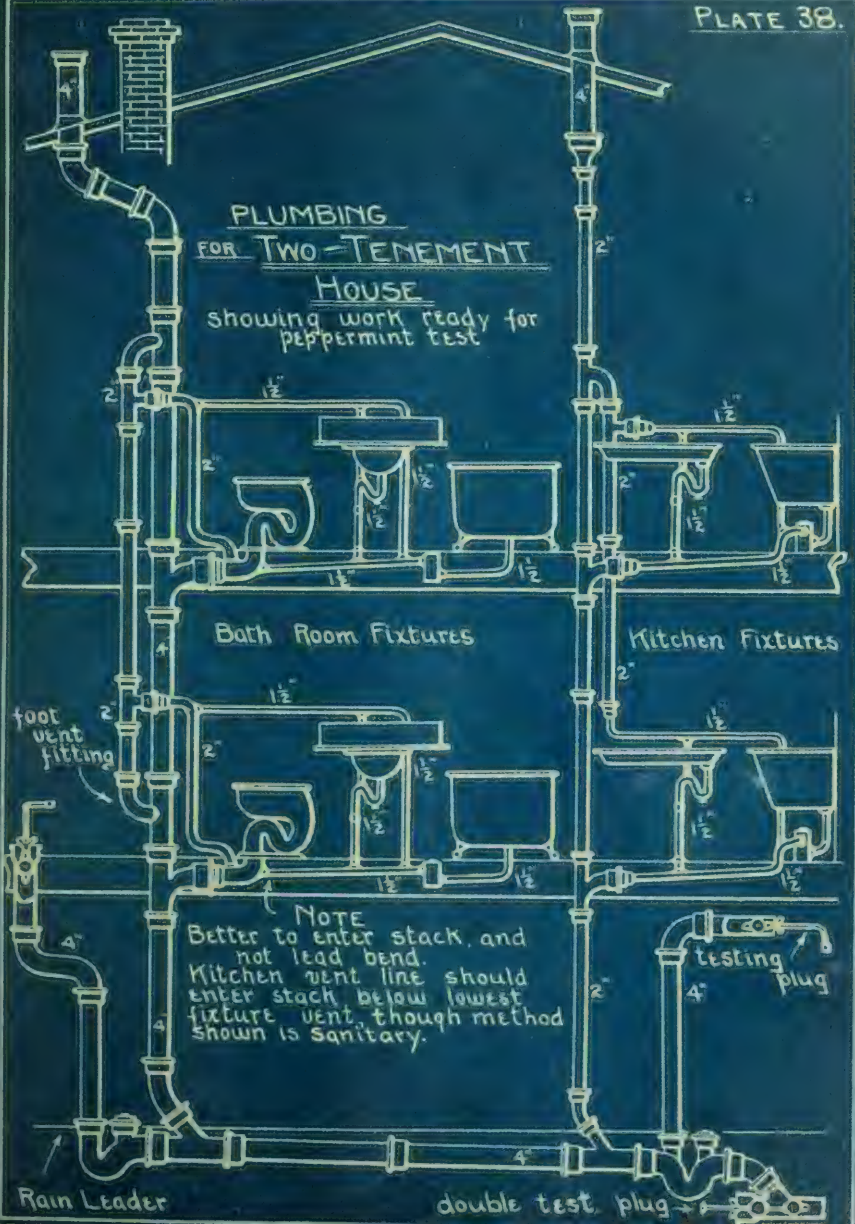
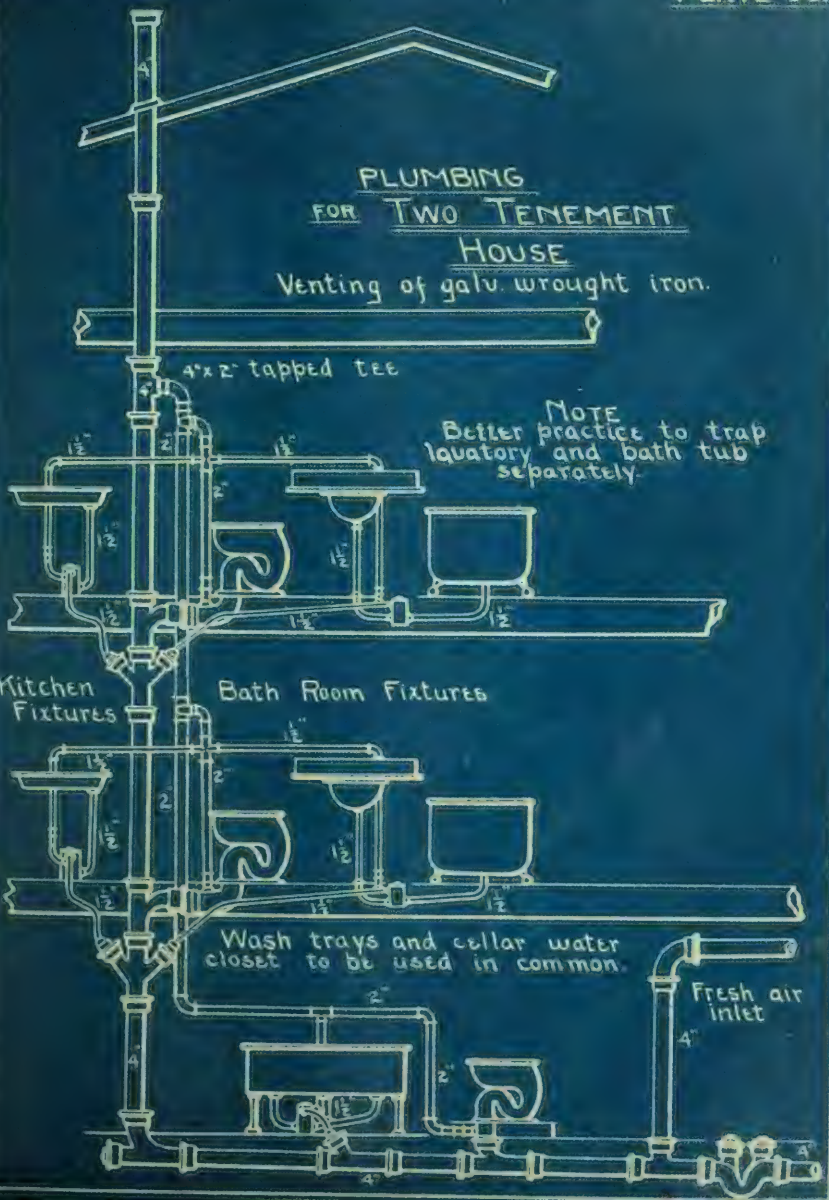


PLATE 39.

# PLUMBING FOR TWO TENEMENT HOUSE

Venting of galv. wrought iron.


4"x 2" tapped tee
NOTE
Better practice to trap lavatory and bath tub separately
Kitchen Fixtures
Bath Room Fixtures
Wash trays and cellar water closet to be used in common.
Fresh air inlet

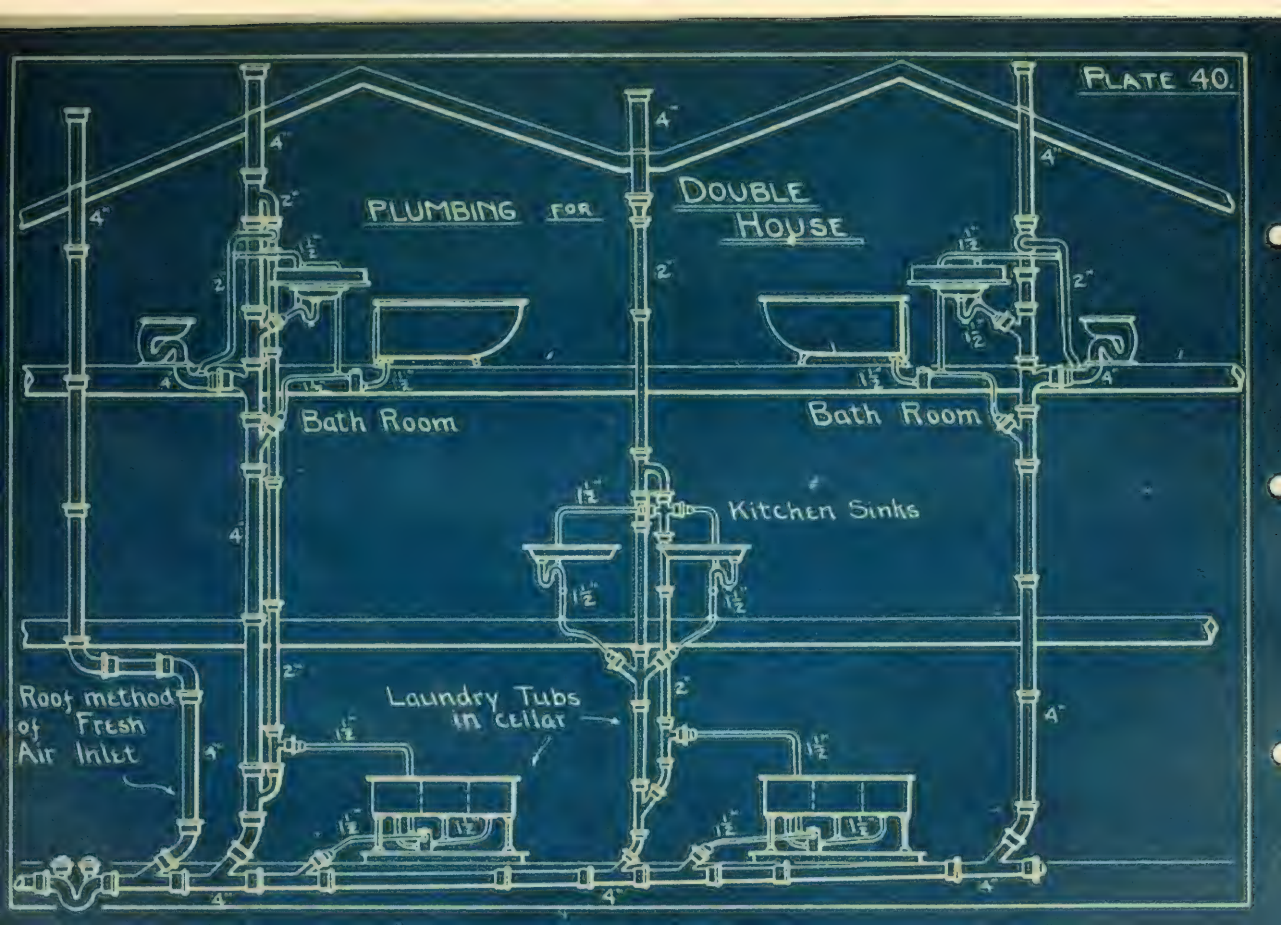


PLATE 40.
PLUMBING FOR DOUBLE HOUSE
Bath Room
Bath Room
Kitchen Sinks
Laundry Tubs in Cellar
Roof method of Fresh Air Inlet

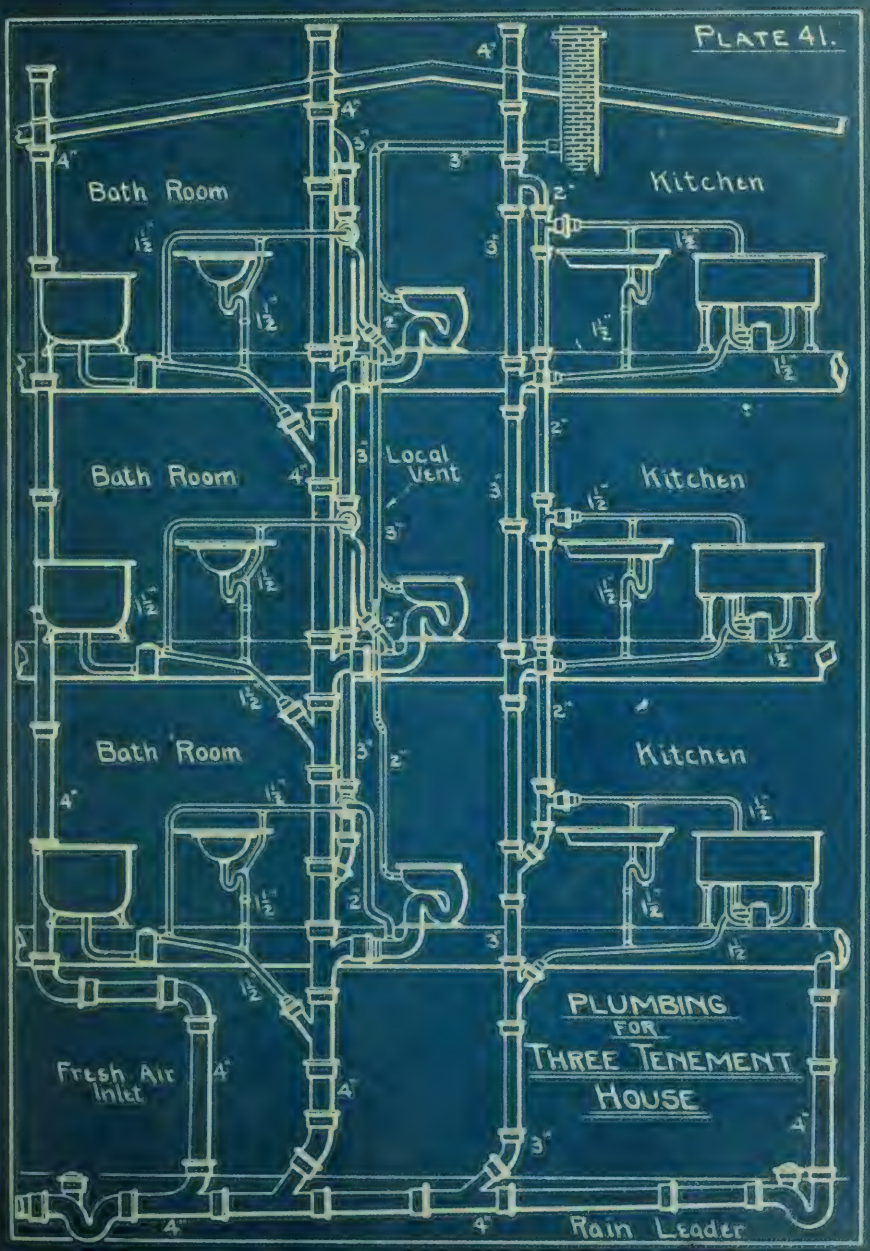


PLATE 41.
Bath Room
Kitchen
Bath Room
Local Vent
Kitchen
Bath Room
Kitchen
PLUMBING FOR THREE TENEMENT HOUSE
Fresh Air Inlet
Rain Leader

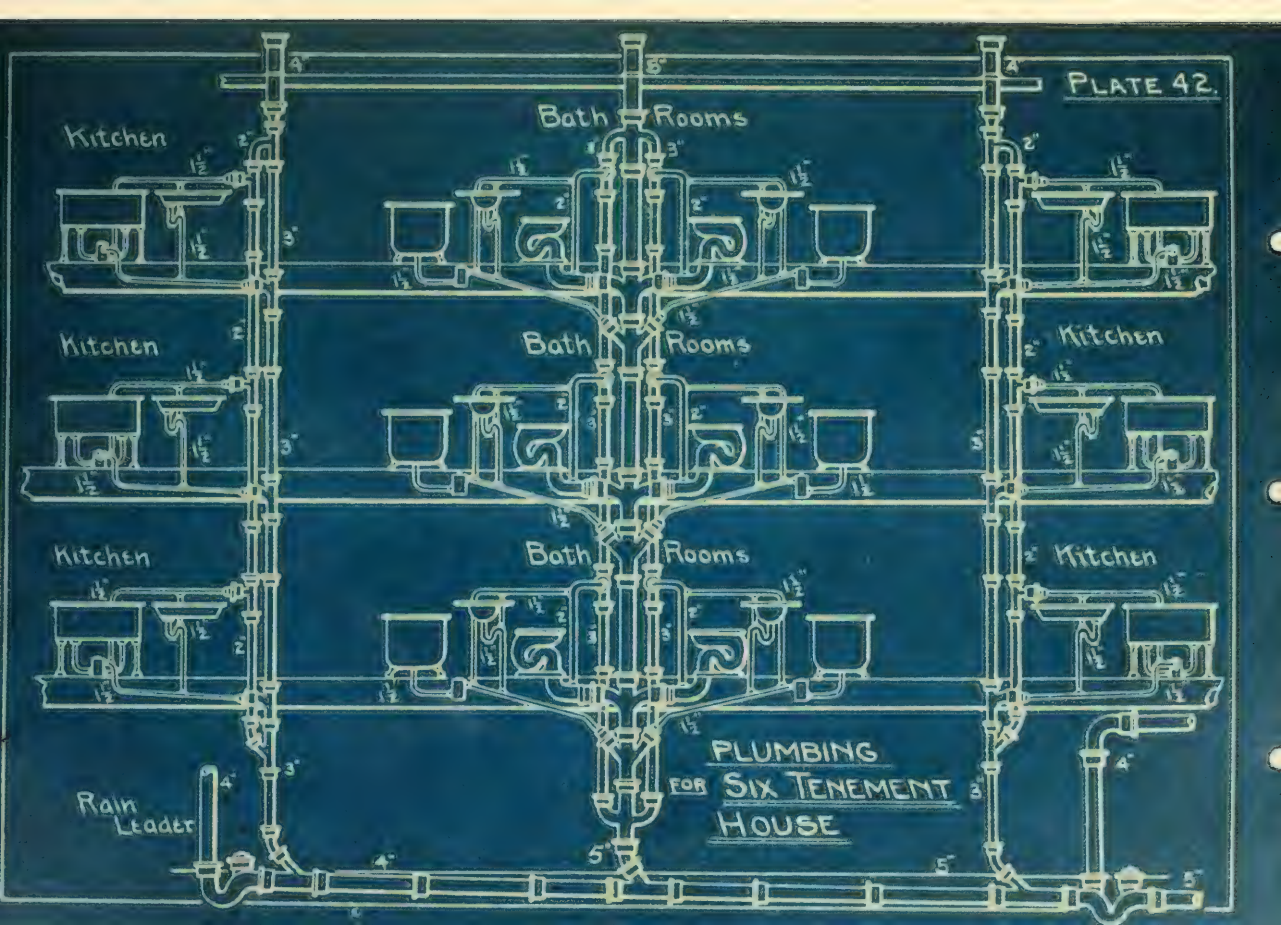


PLATE 42.
Kitchen
Bath Rooms
Kitchen
Bath Rooms
Kitchen
Kitchen
Bath Rooms
Kitchen
Rain Leader
PLUMBING FOR SIX TENEMENT HOUSE

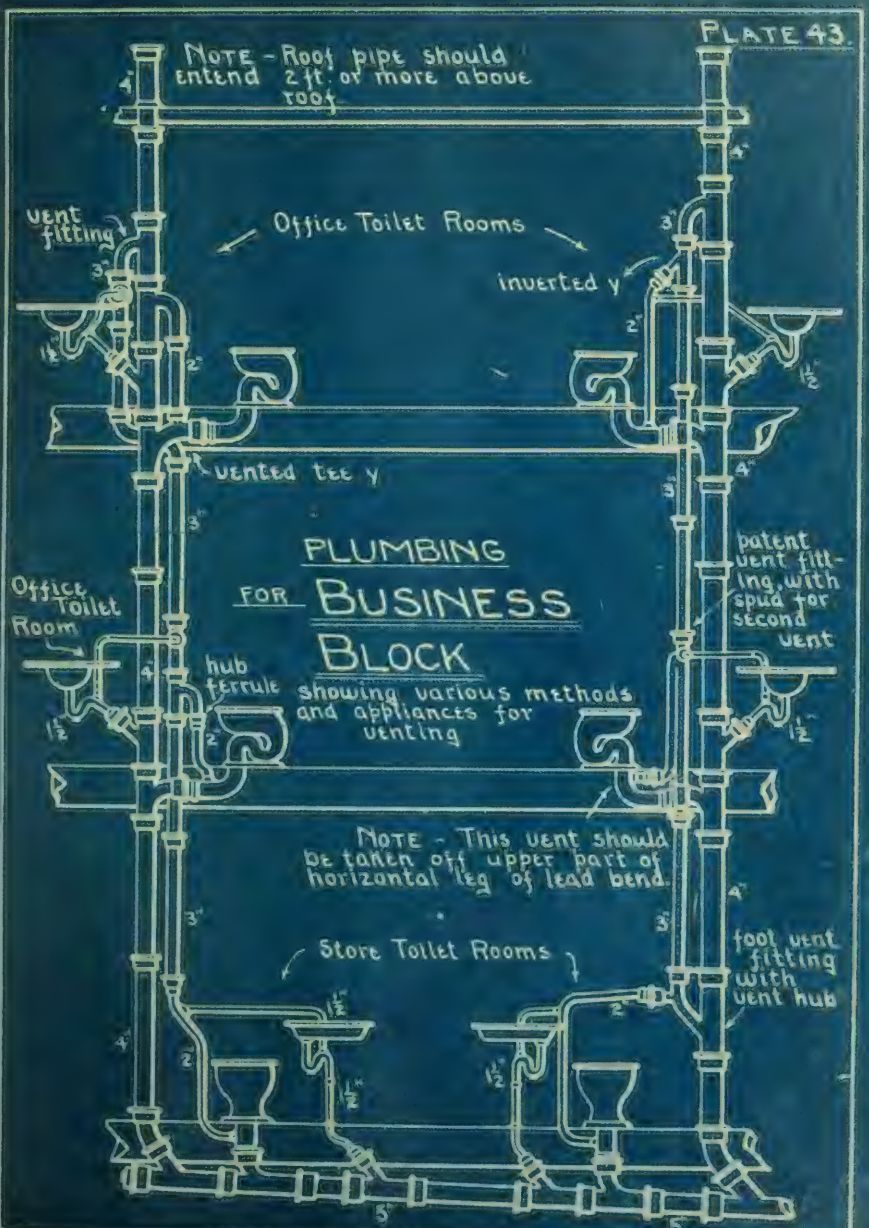


PLATE 43.
NOTE - Roof pipe should extend 2 ft. or more above roof
vent fitting
Office Toilet Rooms
inverted y
vented tee y
PLUMBING
FOR BUSINESS
BLOCK
showing various methods and appliances for venting
Office Toilet Room
hub ferrule
patent vent fitting with spud for second vent
NOTE - This vent should be taken off upper part of horizontal leg of lead bend.
Store Toilet Rooms
foot vent fitting with vent hub

PLATE 44.

# PLUMBING FOR ENGINE HOUSE

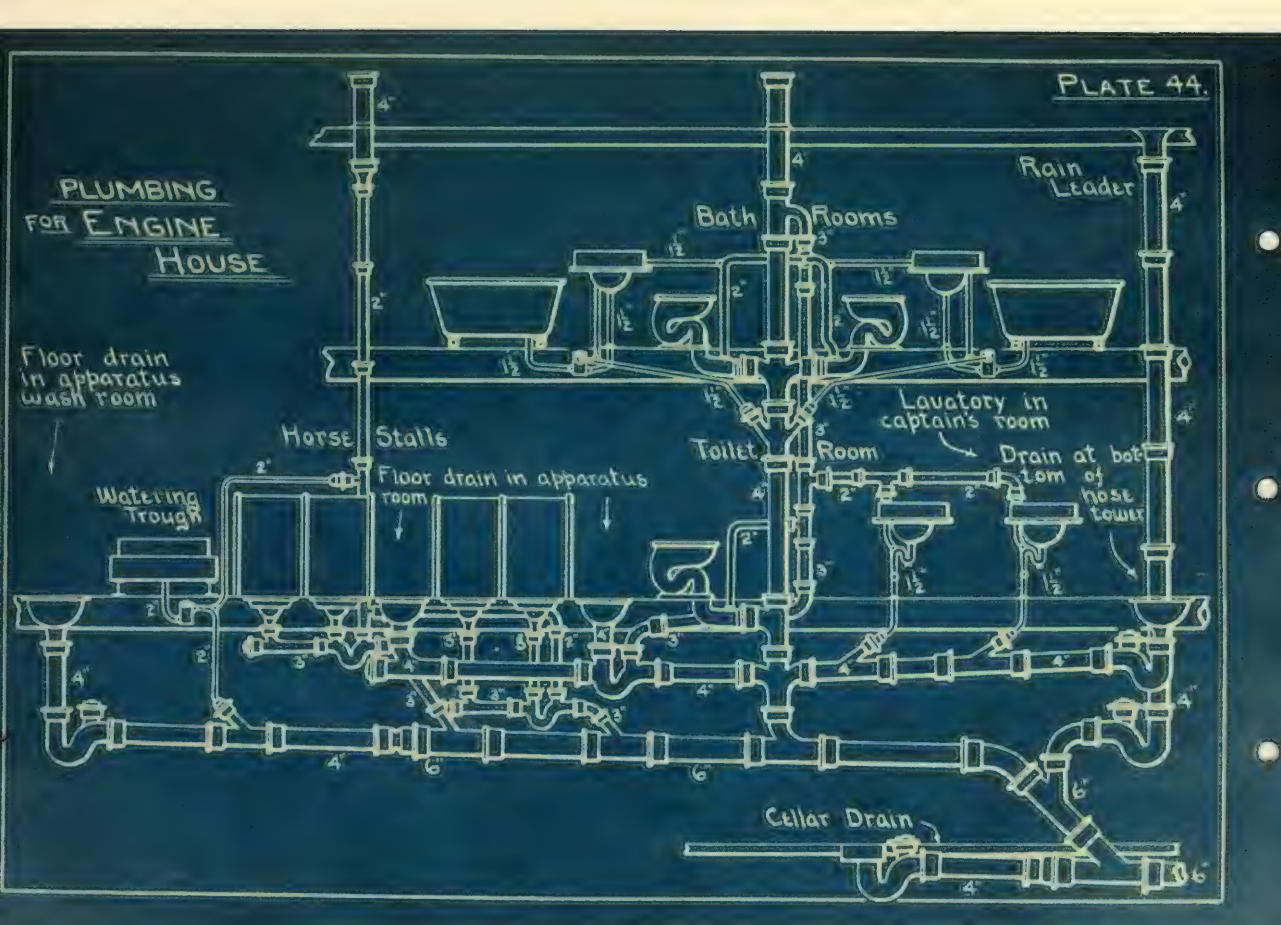
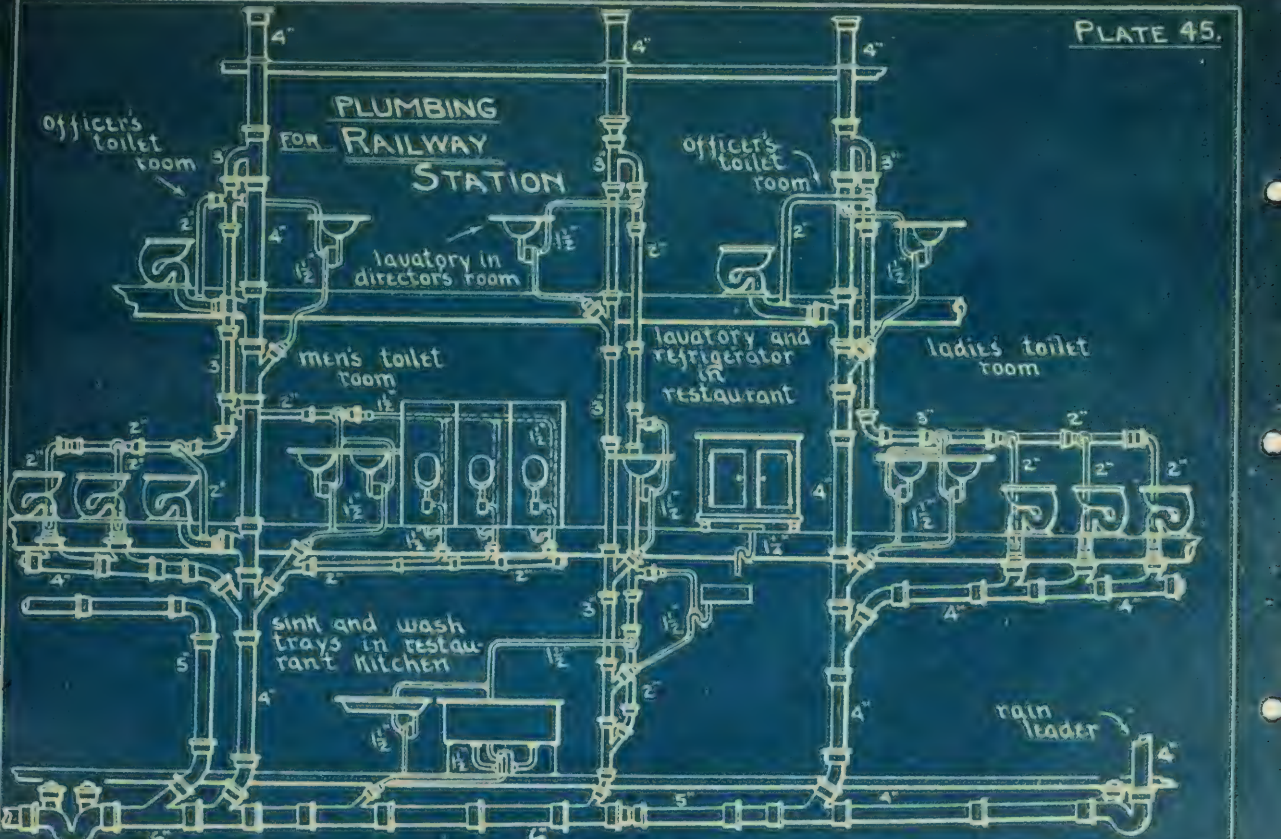


PLATE 45.

# PLUMBING FOR RAILWAY STATION



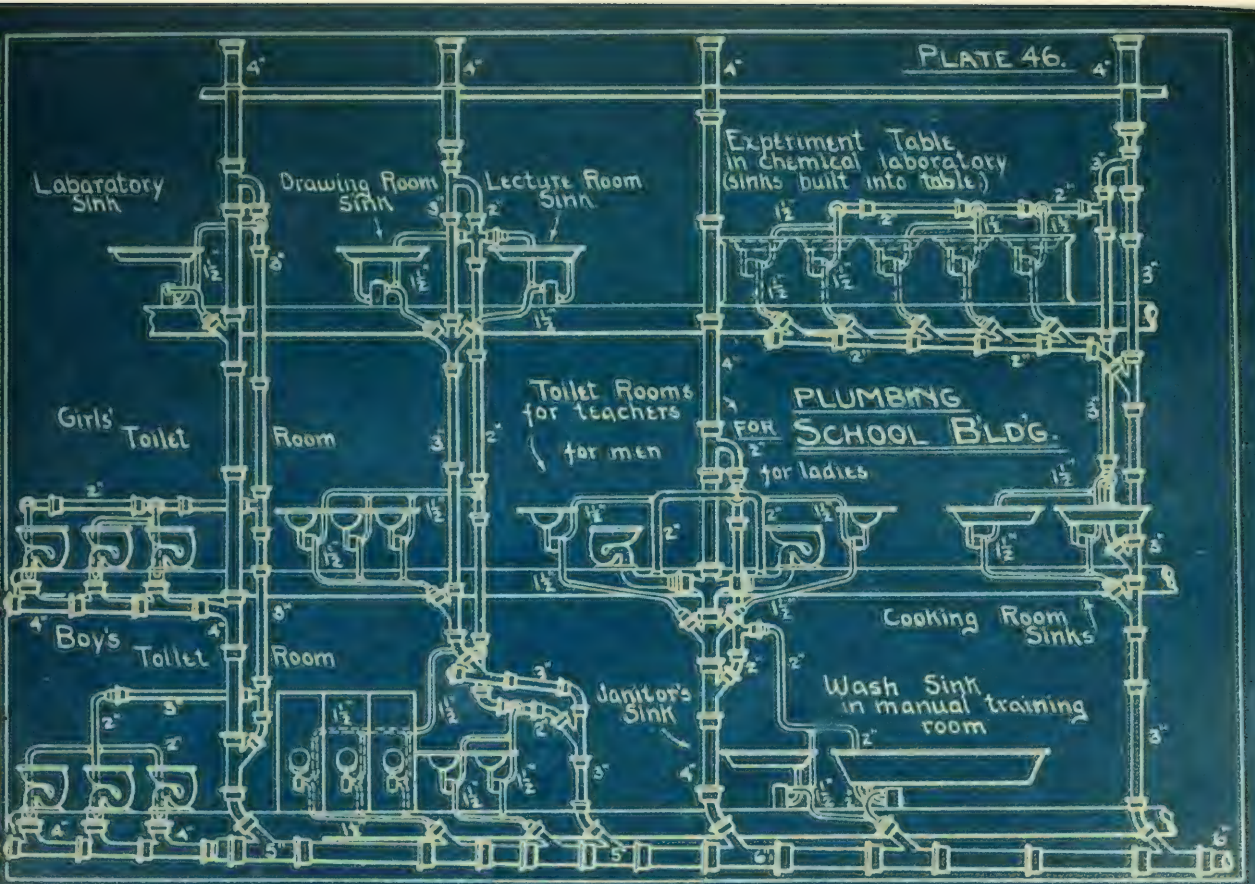


PLATE 46.
PLUMBING FOR SCHOOL BLDG.
Labaratory Sink
Drawing Room Sink
Lectute Room Sink
Experiment Table in chemical laboratory (sinks built into table)
Girls' Toilet Room
Toilet Rooms for teachers
for men
for ladies
Boy's Toilet Room
Janitor's Sink
Cooking Room Sinks
Wash Sink in manual training room

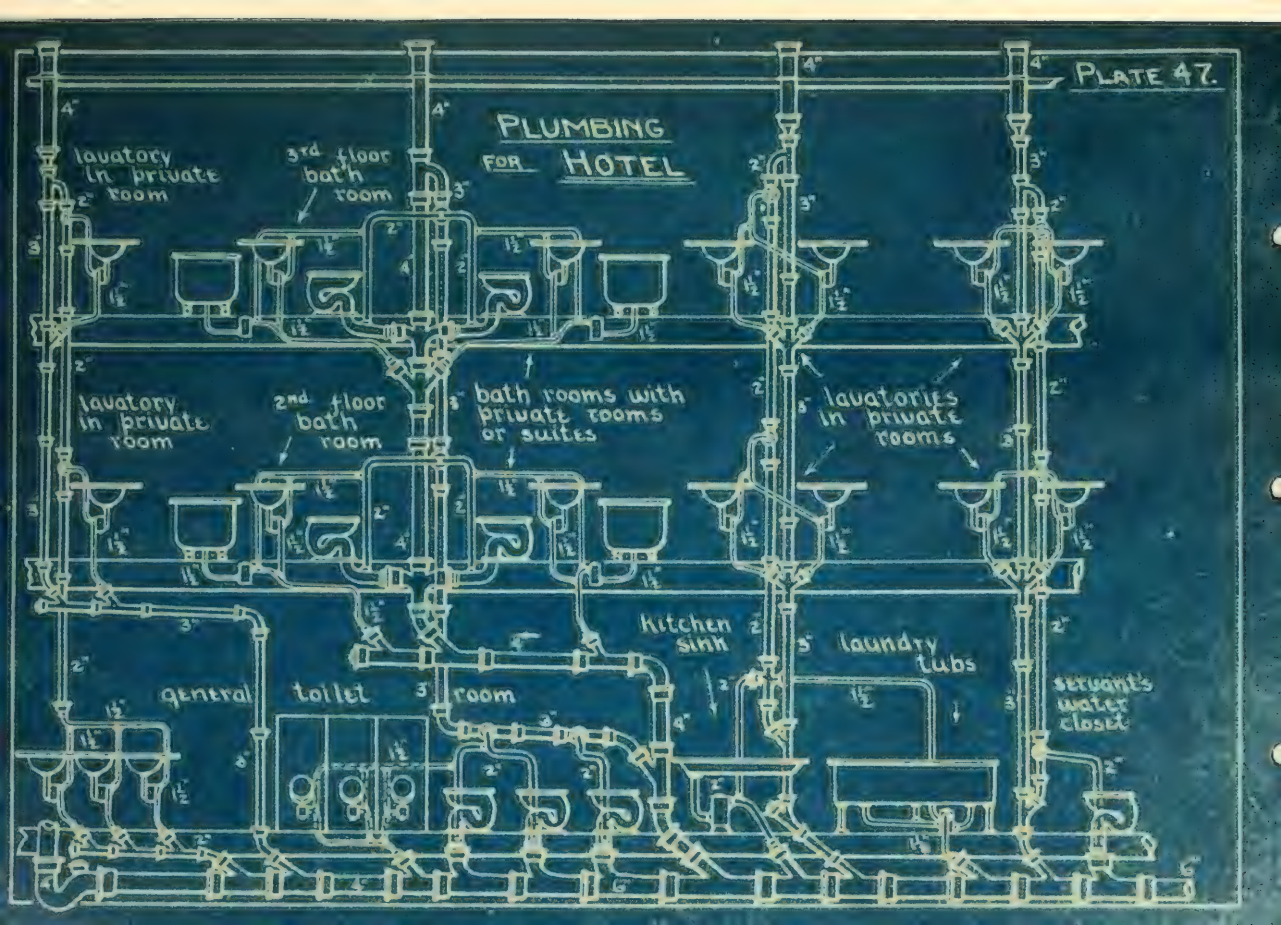
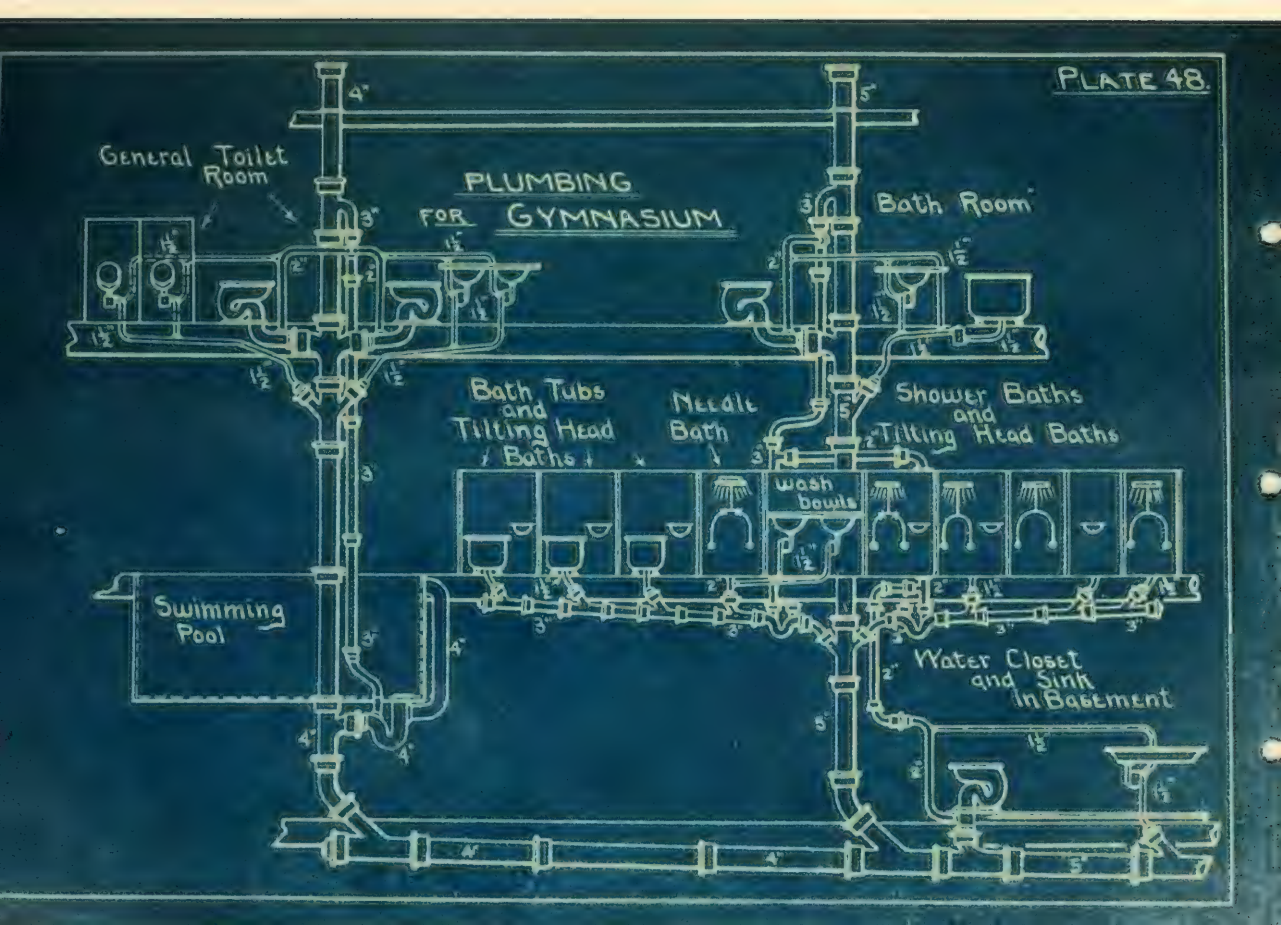


PLATE 47.
PLUMBING FOR HOTEL
lavatory in private room
3rd floor bath room
lavatory in private room
2nd floor bath room
bath rooms with private rooms or suites
lavatories in private rooms
kitchen sink
laundry tubs
general toilet room
servants water closet

PLATE 48.


PLUMBING
FOR GYMNASIUM
General Toilet Room
Bath Room
Bath Tubs and Tilting Head Baths
Needle Bath
Shower Baths and Tilting Head Baths
Wash bowls
Swimming Pool
Water Closet and Sink in Basement

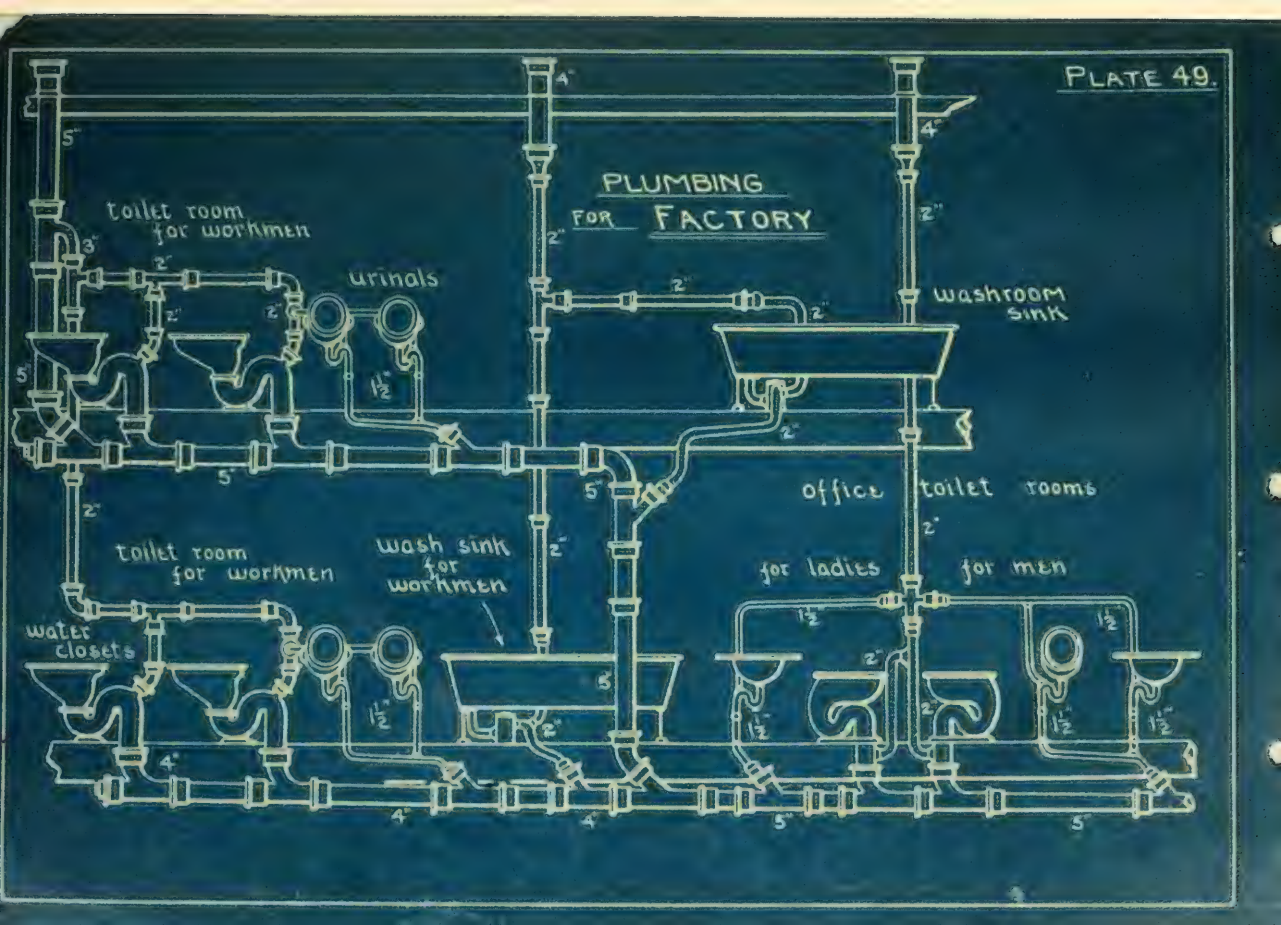
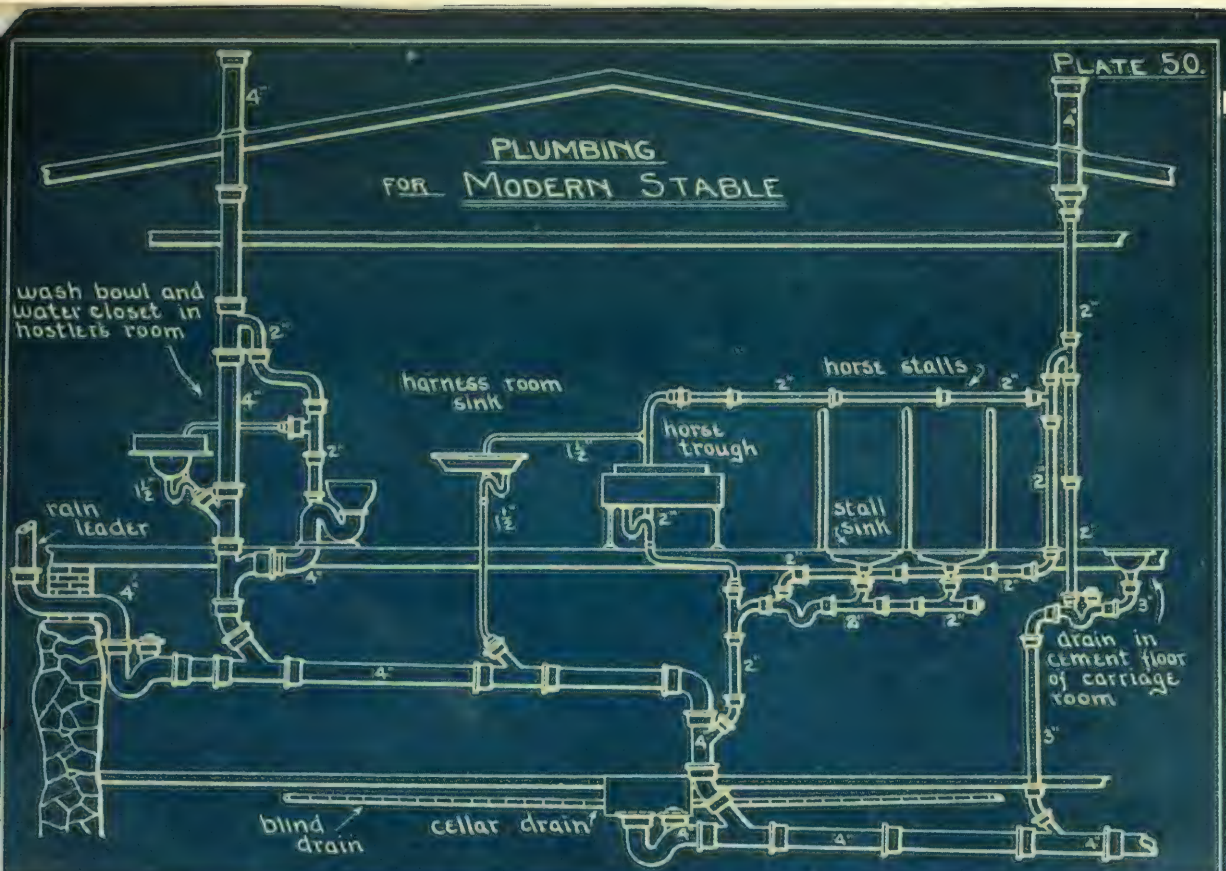


PLATE 49.
PLUMBING
FOR FACTORY
toilet room for workmen
urinals
washroom sink
office toilet rooms
for ladies
for men
toilet room for workmen
wash sink for workmen
water closets

PLATE 50.

# PLUMBING FOR MODERN STABLE



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